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ABSTRACT

An evaluation of existing and proposed mechanisms to ensure data accuracy for the Pell Grant program is reported, and recommendations for efficient detection of fraud and error in the program are offered. One study objective was to examine the existing system of pre-established criteria (PEC), which are validation criteria that select students on the basis of corrections they have made to their original applications. Additional objectives were to examine: the Error Prone Model (EPM) criteria used to select students on the basis of the responses on their application; PEC and EPM "splits," (recently developed criteria); and "Other Groups to Test," (additional criteria developed that are unrelated to PEC or EPM). Validation is an audit process in which selected eligible applicants must provide documentation confirming their application responses before they can receive a Pell Grant. Based on findings, 25 validation selection criteria were recommended for the 1982-1983 processing system. Nine of these criteria were from the EPM or variations of an EPM criterion, while 15 are PEC or variations of a PEC. The recommendations include only one criterion from the "Other Groups to Test." Information is included on technical issues, including file merging, sample selection, transaction selection, and variable preparation. (SW)

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THE ERROR PRONE MODEL AND THE BASIC GRANTS VALIDATION SELECTION SYSTEM

SUBMITTED IN COMPLETION OF
TASK ORDER #1
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DRAFT FINAL REPORT

NOVEMBER 18, 1981

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1.0 EXECUTIVE SUMMARY

This report presents recommendations for ensuring more efficient detection of fraud and error in the Pell Grant program. It presents System Development Corporation's (SDC) evaluation of existing and proposed mechanisms to ensure data accuracy in the program. The Executive Summary presents highlights of the study. The Main Report was designed for use by OSFA staff responsible for controlling fraud and error in the program. This detailed report is contained in sections two through five of this document.

1.1 BACKGROUND

1.1.1 The Pell Grant Program

The Pell Grant program is the largest of the student aid programs administered by the Office of Student Financial Assistance. It is a formula-based entitlement program. The federal government determines eligibility by applying an annual formula uniformly to all applications. Financial aid administrators at participating schools calculate and disburse student awards. Because of the nature of the Pell Grant program, uniformity and consistency are important goals of the program.

1.1.2 The Edits System And The Detection Of Fraud And Error

The edits system is an integral part of applications processing. While the edits system is designed to facilitate processing through an automated system, it is also the first step in uncovering and correcting misreporting and incomplete data. The system detects incomplete data and helps correct it by soliciting additional information from the student or by inferring missing data values from the student's other application responses. The edits help ensure data accuracy by requiring students to provide, confirm or correct suspicious, inconsistent or missing data.

1.1.3 The Validation System And The Detection Of Fraud And Error

Validation is the second step in ensuring accurate reporting. Validation is similar to an IRS audit. The procedure requires selected eligible applicants to provide their schools with documentation confirming their application responses before they can receive an award. Selection for validation is part of the automated application processing system. It occurs after the edit routines are completed. The system selects students for validation randomly or on the basis of pre-established criteria (PEC). In developing these criteria, the Department of Education was guided by the observation that students who correct frequently, changing crucial fields and thereby obtaining a lower Eligibility Index for an award, are more likely to be misreporters. The PEC's are designed to select the student who tries to use correction as a way of receiving a higher award. A student is notified to report for validation by a comment on his or her Student Eligibility Report (SER).

1.2 OBJECTIVES OF THE STUDY

The purpose of this report is to recommend validation selection citeria for the 1982/83 Pell Grant processing system. In order to make its recommendations, SDC examined several different types of validation selection criteria. The study examined:

- the existing system of pre-established criteria (PEC's), validation criteria which select students on the basis of corrections they have made to their original applications;
- the Error Prone Model (EPM) criteria, validation criteria developed by Applied Management Sciences to select students on the basis of the responses on their original Pell Grant application;

- the PEC and EPM "splits", criteria recently developed by CSFA which are variations of PEC or EPM criteria; and

- "Other Groups to Test", additional criteria recently developed by CSFA which are unrelated to either the PEC's or EPM's.

SDC's research did not determine which approach to error detection, EPM or PEC, is most effective. Because not all students in the study had experience with both types of criteria, it was impossible to determine that one approach is more effective than the other. Instead, System Development Corporation (SDC) identified those individual criteria which most effectively identify misreporting.

The methods used to evaluate the validation selection criteria are described below and are followed by a summary of SDC's conclusions and recommendations.

1.3 TECHNICAL APPROACH

The method that SDC employed to recommend the group of validation selection criteria was based on assembling data from sampled student applications in a series of tables. The tables indicate:

- the percentages of students correcting application fields which affect award amount (also shown are the amounts by which they correct);

- the nature of the student's correction (whether to the student's advantage or disadvantage);

- the dollar changes in award amount as a result of validation;

- the percentage of serious misreporters (defined as students whose corrections cause an EI change of 50 points or more and hence a probable award change);

- the extent to which sampled students meet both EPM and PEC criteria;

- the experience of applicants ineligible for a Pell Grant with the existing pre-established criteria.

Section 3 contains a more detailed explanation of the technical approach, discussing such topics as file merging, sample selection, transaction selection, and variable preparation.

1.4 FINDINGS AND RECOMMENDATIONS

This section summarizes the major findings and recommendations of this report. The recommended validation selection criteria are individually identified and discussed in Section 5 of the Main Report.

1.4.1 Major Recommendation - SDC Recommends 25 Validation Selection Criteria

SDC analyzed the data contained in a series of tables to identify those criteria which are most effective in detecting student misreporting. SDC recommends that ED incorporate 25 validation selection criteria in the 1982/83 processing system. Nine of these criteria are criteria from the Error Prone Model or variations of an EPM criterion. - 15 are existing pre-established criteria or variations of a PEC. The group of recommendations includes only one criterion from the "Other Groups to Test".

1.4.2 Basis For Recommendation of the 25 Validation Selection Criteria

SDC recommends the 25 validation selection criteria because each of them meets four requirements. The four requirements that SDC established for each criterion are as follows:

- at least one-half of one percent of the sampled applicants must meet the criterion;
- the number of exact reporters identified by the criterion must be at or below the average number identified by all criteria (this was required so that the inconvenience and expense of validating accurately-reporting students could be avoided);
- on the average, students must experience a significant change of award as a result of validation (none of the criterion groups have an average positive or negative award change of less than $100. Each group has at least one direction of award change which averages $190 or more); and,
- the criterion must be among those identifying the largest percentages of serious misreporters (that is, students whose EI changed by at least 50 points).

In cases where the split versions of a PEC or EPM criterion were all of approximately the same effectiveness, SDC decided to recommend the original, unsplit criterion.

1.4.3 Description of the Recommended Criteria

The EPM criteria SDC recommends share several characteristics. The best EPM criteria remain those which identify students estimating taxes. Seven of the nine recommended EPM criteria identify students who estimate taxes. OSFA might wish to consider requiring the student to present a final tax form before he receives a second payment.

All of the suggested EPM criteria, except G36, deal with dependent students. G36 was the most effective of the EPM criteria dealing with independents. This criterion does not meet all of SDC's requirements. However, it is included in our recommendations because it would be useful to try at least one EPM criterion dealing with independents.

The pre-established criteria which SDC recommends that ED retain in the Pell Grant processing system are more diverse than the recommended EPM criteria. The PEC's identify both independent and dependent students. Six criteria identify students who match on the social security check. Three criteria select students whose reported tax does not match their tax as calculated by the operating system. Veteran's benefits affect students identified by two of the recommended PEC groups. Problems with medical/dental benefits also affect students in two criteria groups.

CSFA may wish to investigate the motivations of students, independent or dependent, who fail to reenter the processing system after validation selection be researched. If CSFA assumes that most of these students are deliberate misreporters fearing revelation, then the fact that applicants selected by a particular criterion frequently drop out should not prevent that criterion's adoption. If however, most students who do not pursue a Pell Grant are assumed to be honest students intimidated by the prospect of validation, CSFA should be wary of adopting a criterion associated with high rates of missing applicants. PEC A10 and all of its split groups had large percentages missing.

1.4.4 Additional Findings

SDC found that, as in the AMS study, the items Adjusted Gross Income and Taxes Paid were the most frequently corrected items. These items were at the heart of misreporting on several tables. The frequent corrections on these items probably reflect the relative ease of validating items for which there is standard documentation such as a 1040 Federal tax form.

SDC, like AMS, found that large numbers of independent students fail to reenter the processing system after selection for validation. This departure of independents may show the exit of students who, because they falsely claim to be independent, avoid validation. Or, the large percentage of missing independents may indicate that independents are less likely to keep the records validation requires than are the parents of validated dependent students. It is also possible that independent students as a group are demographically and economically different from dependent students and, therefore, their motivations to enroll in school and complete the Pell aid process are different. The Department of Education may wish to investigate this phenomenon further.

2.0 INTRODUCTION AND BACKGROUND

This report describes the results of SDC's evaluation of recommendations of an error-prone model and other means of controlling fraud and error in the Pell Grant Program. Its purpose is to aid the Department of Education in choosing effective validation selection criteria for the 1982-83 school year. Validation is an audit process in which selected eligible applicants must provide their schools with documentation confirming their application responses before they can receive a Pell Grant. Currently, students are selected for validation randomly or on the basis of pre-established criteria. To perform the study, SDC used data from the 1980/81 Pell Grant Application processing year to test existing selection methods, proposed methods, and recommendations from the Error Prone Model, a statistically-derived model which Applied Management Sciences (AMS) developed using 1979/80 data. The AMS report, published in July, 1980, recommended a set of Error Prone Model (EPM) groups by which to select applicants for validation.

In order to make its recommendations, SDC examined several different types of validation selection criteria. The study examined:

- the existing system of pre-established criteria (PEC's), validation criteria which select students on the basis of corrections they have made to their original Pell Grant Applications.

- the Error Prone Model (EPM) criteria, validation criteria developed by Applied Management Sciences to select students on the basis of responses on their original Pell Grant Applications;

- the PEC and EPM 'splits', criteria recently developed by CSFA which are variations of PEC or EPM criteria; and

- "Other Groups to Test", additional criteria recently developed by OSFA which are unrelated to either the PEC's or EPM's.

Between the 1979/80 and 1980/81 award years the government altered the Pell Grant Formula, the edits system and validation procedures. These changes potentially affected the continued relevance of the EPM recommendations. Therefore, the EPM recommendations were not implemented in the 1980/81 processing system. In 1981 OSFA asked System Development Corporation's assistance in choosing validation selection criteria for the 1982/83 system. One of SDC's tasks was to test the effectiveness of the AMS recommendations in identifying error-prone students in the 1980/81 Pell Grant population.

The current study began as a series of individual tables--some based on formats developed for the original Error-Prone Model study, others dictated by OSFA's new information needs. The SDC EPM study team and representatives from the Office of Student Financial Assistance (OSFA) met regularly during study planning. At these meetings, OSFA specified the formats and definitions that SDC was to use in carrying out the study.

SDC's research did not determine which approach to error detection, EPM or PEC, is most effective. Because not all students in the study had experience with both types of criteria, it was impossible to determine if one approach was more effective than the other. Instead, SDC identified individual criteria which are effective in error detection.

This report is divided into 5 sections. Section 2 provides an overview of the Pell Grant Program and the current technique for detecting fraud and error within the program. It also explains the SDC research tasks in the context of previous studies. Section 3 details the mechanics of SDC's approach. It discusses such topics as file preparation and sampling. Section 4 explains SDC's sequence of analysis. Analysis results for each table are presented in

Section 5. In Section 6 SDC recommends a group of validation selection criteria for the 1982/83 Pell Grant processing system.

2.1 BACKGROUND TO THE STUDY

2.1.1 The Pell Grant Program - Background

In 1972 Congress amended Title IV of the Higher Education Act of 1965 to authorize the Basic Educational Opportunity Grant Program, renamed the Pell Grant Program in 1980. The program is the largest of the student aid programs administered by the Office of Student Financial Assistance (OSFA). Pell differs from other OSFA need-based programs primarily because it is an entitlement program. In other programs, funds are appropriated and distributed through participating institutions to students to the extent that they are available. In the Pell Grant Program all students who meet the eligibility criteria are assured of receiving the aid to which they are legislatively entitled. Award size is based upon the student's need and the cost of attendance at any of the approximately 7,000 eligible schools. The Pell Grant program is also unique because the Department of Education determines a student's eligibility and financial need by applying a uniform formula to all applicants' personal and financial data. Traditional campus-based Federal financial aid programs rely on financial aid administrators to determine student eligibility. The Pell Grant Program instead involves the school financial aid administrators in the calculation and disbursement of awards. Uniformity and consistency are important goals of the program.

2.1.2 Existing Systems For Detecting Fraud And Error

The Pell Grant Program has grown phenomenally since 1973, from 176,000 recipients to over 2.75 million expected recipients in the 1981/82 processing year. Applicant volume has swollen from 512,866 to 5.3 million. As the program has expanded, the Department of Education has felt the need to develop an increasingly sophisticated processing system to review and analyze the accuracy of the data reported. The processing system now contains a number of controls to ensure data accuracy.

Controls can diagnose commonly made errors and select, for validation, students with suspicious data. During processing a "compute edits system" identifies anomalies or incomplete data and, through comments on the Student Eligibility Report, may prompt the student to provide, confirm, or correct data. Beyond the compute edits a validation system has been developed to require some applicants to verify the financial information that they provided when applying for a grant. These two systems are explained in the following subsections.

2.1.2.1 The Edits System

The application processing edits system (also known as the compute edits system) is an integral part of applications processing. During application and correction processing the system ensures that an applicant's responses are complete and mutually consistent. The edit routines test each application to make sure that data in each field is logical. Also, they test the interrelationships of key data items.

If too many critical data are missing from an application to allow eligibility determination, the edits system rejects the application and prints a diagnostic comment on the SER asking the applicant to provide the information necessary to determine eligibility. Students whose application data are complete, but inconsistent or suspect, are also rejected and receive special comments requiring them to verify or correct the missing or questionable application responses.

In cases where omitted data can easily be inferred from other responses on the application, the system assumes a value and notifies the students of the assumption. The assumption is always the one which, while keeping with the student's other data, costs the government the least. While the applications processing edits system is designed to facilitate processing through an automated system, to pinpoint applicant's data problems, and to offer instructions to help the student obtain a valid eligibility report, the system is also the first step in uncovering and correcting misreporting and incomplete reporting. A second step in controlling misreporting, institutional validation, is discussed below.

2.1.2.2 Validation

Validation is similar to an IRS audit. The procedure requires selected eligible applicants to provide their schools with documentation confirming their application responses. For this reason it is often called "institutional validation". In cases where the documents do not match the data on the Student Eligibility Report (SER), the applicant must correct the SER if the corrections will result in a higher eligibility index and, consequently, lower award. Therefore, "misreporting" as it is defined in this study, can be identified when the student changes SER information as a result of validation.

Selection for validation occurs after the edits procedures are completed and students are determined to be eligible. Under the present fraud control system the automated processing routines select students for validation in two different ways. Students are selected randomly according to a predetermined interval, or they are chosen on the basis of pre-established criteria. In the 1980/81 processing year approximately 22% of the validated students were selected randomly while approximately 78% were selected because they met one or more of the pre-established criteria.

Random selection ensures that selection does not overwhelmingly target certain groups for validation. It also has proven useful as a control group to judge the relative effectiveness of the PEC system.

Selection according to pre-established criteria is determined by the computerized editing process. The PEC system is designed to select the student who tries to use correction as a way of receiving a higher award. In developing the pre-established criteria the Department of Education has been guided by the observation that students who correct frequently, changing crucial fields and obtaining a lower EI, are more likely to be misreporters. Most of the PECs used in the current system select students who have received comments questioning their data, and have verified that the inconsistent information is true.

Throughout the history of the validation it has been infeasibile to validate every student who applies for a Basic Grant. Nevertheless, the tremendous volume of applicants in the system has provided the Department of Education with an opportunity to study applicant behavior, detect patterns of misreporting, and choose for validation those students who are most likely to misreport.

Successful fraud control through the validation system efficiently detects the largest number of misreporters and concentrates on those who misreport in the highest dollar amounts. The development of validation has also allowed the Department to look at the student who misreports to his own disadvantage as well as the student misreporting to his advantage. This report investigates both types of misreporting. The following section explains in detail the Error Prone Model approach to validation.

2.1.3 The Error Prone Model

In 1979 the Office of Student Financial Assistance commissioned Applied Management Sciences (AMS) to assess the impact of the existing system of Pre-Established Criteria (PEC) and to develop a method of detecting errors through the examination of applicant characteristics. By comparing applicants' initial responses with their post-validation behavior, AMS divided the Pell Grant population into 37 groups, each with a different propensity to misreport. AMS recommended that the government select for validation all students whose application responses placed them in one of eight groups identified as having a high propensity to misreport.

2.1.3.1 Why The Study Was Commissioned

Between the 1979/80 and 1980/81 award years, the government altered the Pell Grant formula, the edits system and validation procedures. These changes may have affected the continued relevance of the Error Prone Model findings. Therefore, the validation selection criteria AMS recommended were not implemented in the 1980/81 processing system. In 1981 the Office of Student Financial Assistance asked System Development Corporation to determine whether the AMS validation selection criteria were effective in identifying error-prone students in the 1980/81 Pell Grant population.

2.1.3.2 Scope Of The SDC EPM Study

The study examined 179 criteria in all. SDC followed the same procedures to evaluate all the criteria in the study. Whether the criteria was an EPM born of a statistically-derived search model or a PEC developed on the basis of experience, the same evaluation techniques were used. Unlike AMS, SDC did not employ a sequential search technique. At OSFA request, this study involved data cross-tabulations only.

3.0 TECHNICAL APPROACH

The SDC EPM study team and representatives from the Office of Student Financial Assistance consulted frequently to design the technical approach. In these conversations OSFA specified the forms, definitions and techniques that SDC was to use in carrying out the study.

3.1 FILE MERGING

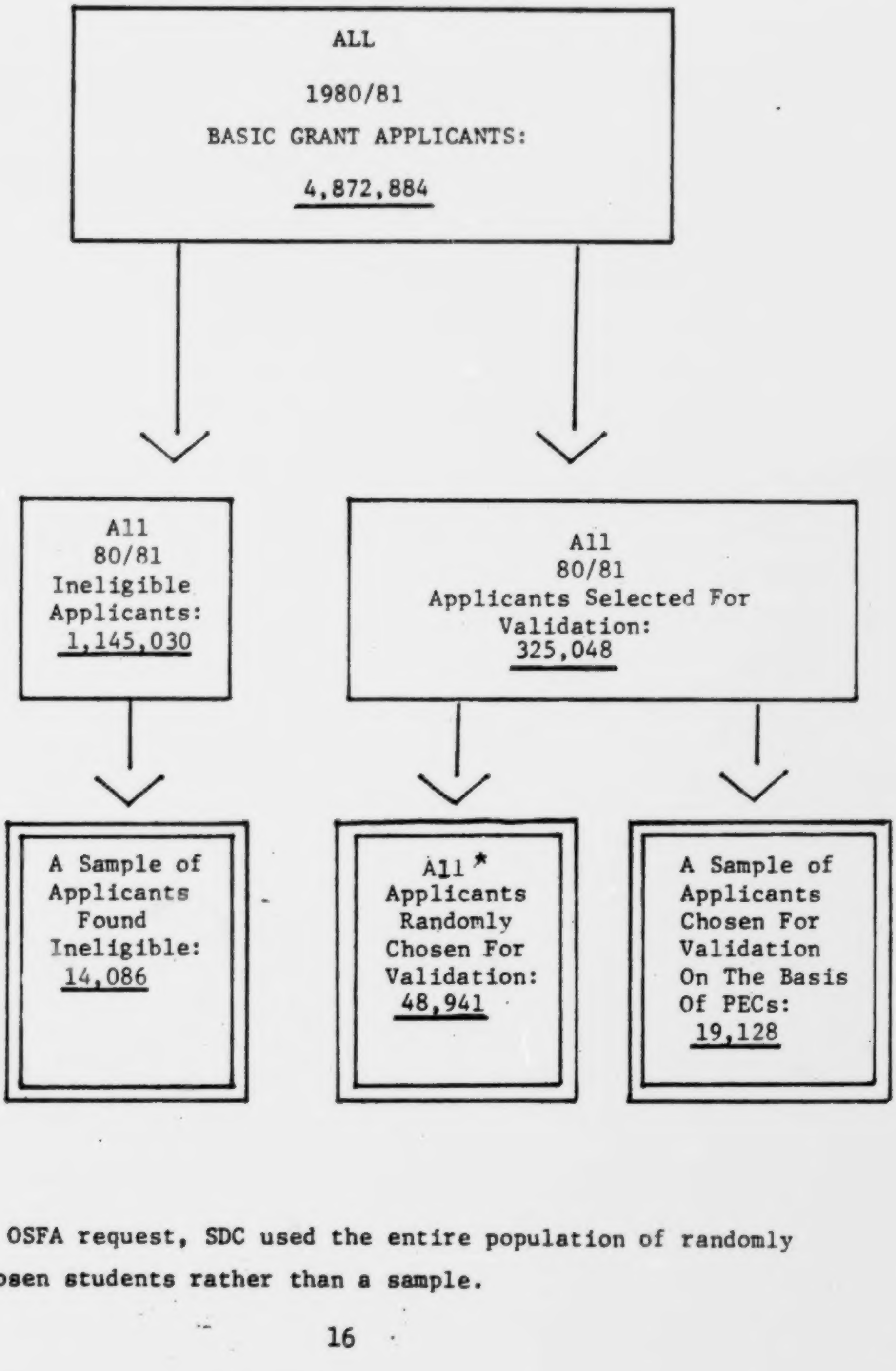
The first step in the EPM study was to gather application and payment data for each applicant. Three files were merged: the 1980/81 Applicant Database (File 874, Record 1001); the Computed Applicant Record (File 455, Record 371); and, the 1980/81 payment [Program Information Management System (PIMS)] file. The Database and Computed Applicant Record contain each student's responses to the questions on the Pell Grant application. The PIMS file contains payment-related data reported by the Government or the applicant's school; for example, cost of education, student enrollment status and expected award.

By matching student identifiers from each file, SDC combined application and payment data for each applicant. If a student did not have payment data on the PIMS file, the student's application data were retained and the payment data listed as missing. Thus, the file was set up to contain both recipients and non-recipients. The few students who had experienced more than one payment transaction were excluded from the study.

3.2 SAMPLING

In the second step of the study, SDC drew samples from the file of merged data for the 1980/81 school year. These samples included ineligible as well as eligible applicants. Figure 3.1 illustrates the steps in the sampling process.

Figure 3.1 EPM Sampling Process


ALL
1980/81
BASIC GRANT APPLICANTS:
4,872,884
All 80/81 Ineligible Applicants: 1,145,030
All 80/81 Applicants Selected For Validation: 325,048
A Sample of Applicants Found Ineligible: 14,086
All* Applicants Randomly Chosen For Validation: 48,941
A Sample of Applicants Chosen For Validation On The Basis Of PECs: 19,128

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[*] At OSFA request, SDC used the entire population of randomly chosen students rather than a sample.

3.2.1 The Random Sample

SDC tested the data of all 48,774 students randomly selected for validation in 1980/81. Because it looked at all students randomly-selected for validation, rather than a sample of the randomly-selected students, there was no need to assure sample accuracy by drawing a second ("replication") sample as in the AMS study.

3.2.2 The PEC Sample

For its PEC sample, at OSFA request, SDC randomly selected one out of every 13 students chosen for validation on the basis of a pre-established criterion. The sample included 19,128 applicants.

3.2.3 The Sample of Ineligible Applicants

In order to project the impact of extending the existing PEC's to Pell Grant ineligibles (who may be eligible for other Federal aid programs), SDC examined the potential PEC experience of 14,086 students not eligible for Pell. The present processing system does not apply PEC's to ineligible applicants. However, since most PEC's are directly related to verify codes,[1] SDC was able to look at the ineligible applicant's experience with verify codes and extrapolate from this a potential PEC experience for each student. The analysis used the first ineligible transaction for each of these students. By taking the first ineligible transaction, SDC simulated the likely PEC experience of students who are ineligible for Pell Grants but who may be eligible for other types of Federal aid.

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[1] Verify codes are produced by rejection edits. When these codes appear on a student's record they indicate that the student has responded to a system-generated comment by affirming the data in question. See Appendix C for the Pell System verify codes and the PEC's to which they are linked.

3.3 THE EPM STATISTIC

AMS derived the Pell Grant Error Prone Model by a sequential search technique, THAID - the Theta Automated Interaction Detector. THAID assesses the joint impact of several predictor variables on a specified dependent variable; in this case, the dependent variable is propensity to misreport. By a series of successive binary splits, THAID divides sets of data into groups which maximally differ from one another in terms of this dependent variable.

THAID was used to assign every member of the Pell Grant population to an EPM group. It divided applicants into groups which differed in the propensity of their members to misreport. The THAID technique examined three types of applicant data: SER items; variables describing applicants' corrections history; and, variables formed from several SER items. Below is a complete list of the data elements (independent variables) which AMS used to develop an error prone model for Pell Grants. The asterisked variables are those variables eventually selected for the model. SDC's cross-tabulations involved the asterisked variables only.

PREDICTOR VARIABLES [2]

1. Citizenship (citizen, resident or blank)
2. Bachelor's degree (no or blank)
*3. Tax filing status (based on tax form, estimated, did not have to file or blank)
4. Number of prior transactions
*5. M.D.E. source (SACC was coded the same as CSS)
6. Marital status
7. Discrepancy between household size and exemptions
8. Household size
*9. Exemptions
10. Marital status

---

[2] List is based on the 1980 AMS study.

11. Social Security Benefits
12. Non-taxable income other than Social Security
13. Non-taxable income
*14. Adjusted Gross Income
15. Father's portion
16. Mother's portion
*17. Presence or absence of both sources of earned income (both absent, father's only, mother's only, both present)
*18. Taxes paid
*19. Taxes as a proportion of AGI (blanks converted to zeros)
20. Post-high school education (members of household in)
21. Unreimbursed tuition
22. Medical or dental expenses
23. Casualty-theft losses
24. Itemized deductions
*25. Savings
26. Applicant's resources
27. Veteran's benefits (amount only)
*28. House value
29. House debt
30. Investment value
*31. Date first application signed
*32. Date selection transaction processed
33. Date of birth
*34. Type of school (first choice)
*35. Control of school (first choice)
36. Presence or absence of second choice school
37. Congruence between state listings (whether state of legal residence, state in applicant's address and state of first choice school coincide; one value for each possibility including missing school)
38. Number of blanks and zeros in fields calling for dollar responses
*39. Eligibility index

*40. Total income (N.T.I. + A.G.I. + amount received from veteran's benefits in a year after converting blanks to zeros)
*41. Year in school
42. Number of assumption comments
43. Unusual expenses (Medical or dental + casualty-theft losses)
*44. Assets (House, farm, business and investment values minus debts, plus savings and applicant's resources)
45. Father's portion divided by total income
46. Total income divided by (total income + assets)
47. Applicant's resources divided by parent's total income
48. Total debts divided by (house, investment, farm and business values + savings)
*49. Non-taxable income divided by total income
50. Number of critical fields having received rejection comments in the past
51. Number of changes made to critical fields
52. Number of verifications in selection transaction
53. Number of fields producing assumption comments across transactions
54. SEI difference between immediate prior transaction and present transaction (SEI was computed if previous transaction was not valid)
55. Previous ineligible transaction?
56. Ever changed marital status?
57. Ever changed household size?
58. Ever changed U.S. tax figures?
59. Ever changed exemption?
60. Ever changed AGI?
61. Ever changed taxes paid?
62. Ever changed model?
63. Ever a change in scheduled award?
*64. Absolute value of the difference between highest and lowest SEI achieved (included computed for rejections)

65. Number ever missing among the following fields: bachelor's degree, household size, U.S. tax figures, exemptions, A.G.I., taxes paid, date signed, year in school

*66. Model (incorporated by forced division of sample, but not chose by THAID).

The Figure 3.2 illustrates the way in which AMS used the THAID statistic to split the Pell Grant population into groups with differing propensities to misreport. It is followed by definitions of each of the splits. The circle marked "A" represents all Pell Grant applicants. The other circles with letters represent the successive splits generated by THAID. The number and letter combinations on the right side of the table identify the EPM splits,refined versions of the THAID-identified groups which SDC tested on the 1980/81 data. These refined versions are groups which ED felt to be promising in error-identification.

AMS used propensity to misreport as its dependent variable. Applicants were divided into three categories (or types) according to their propensity to misreport:

Type I - Exact Reporters

Applicants whose Eligibility Index (EI) did not change as a result of validation or changed less than fifty points.[3]

Type II - Overclaimers

Applicants whose EI increased fifty points or more as a result of validation.

Type III - Underclaimers

Applicants whose EI decreased fifty points or more as result of validation.

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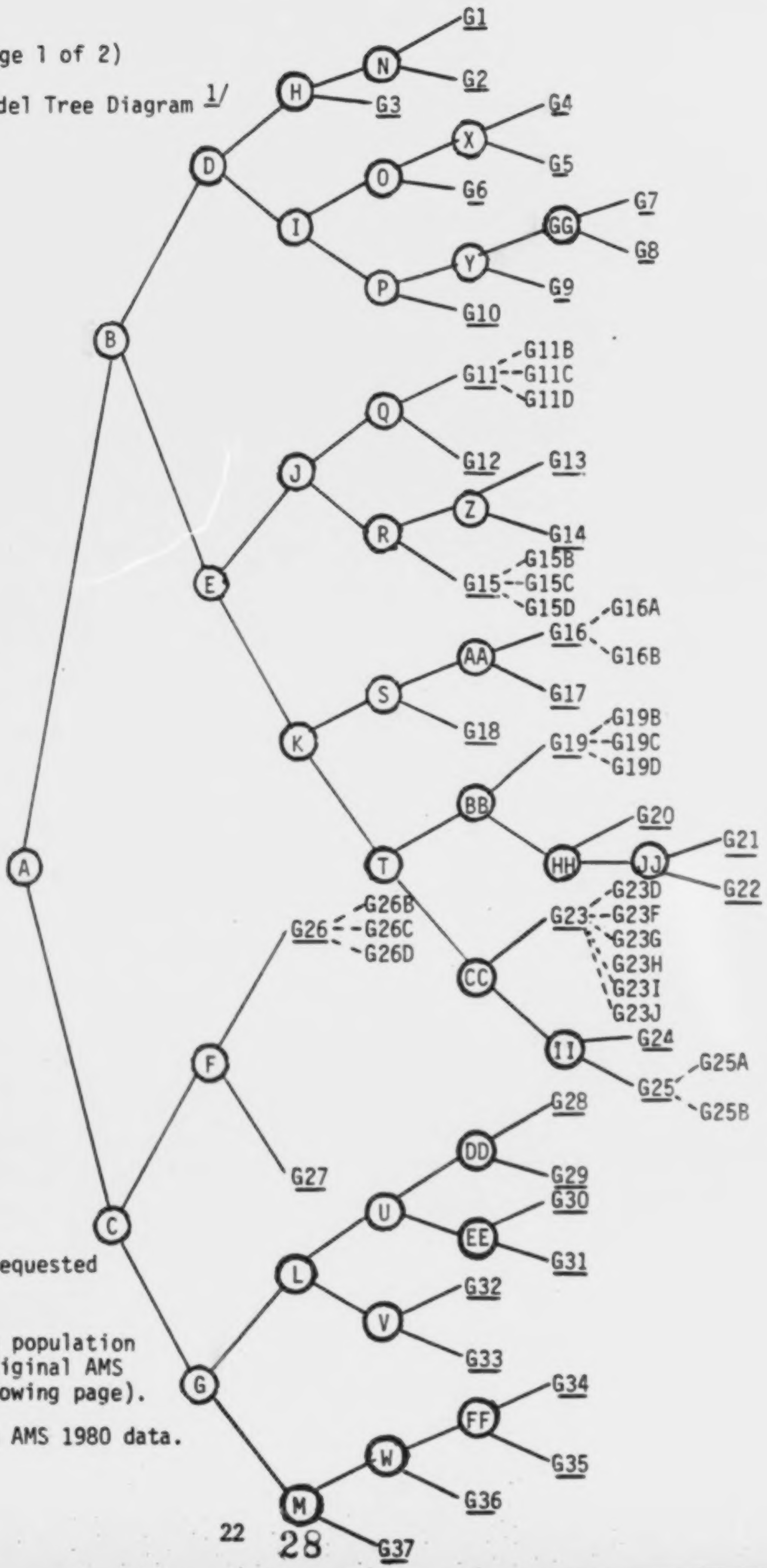
[3] The fifty point cut off was chosen because changes less than 50 points seldom result in a significant award change.

Figure 3.2 (Page 1 of 2)

Error prone model Tree Diagram 1/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G23I
G23J
G24
G25
G25A
G25B
G26
G26B
G26C
G26D
G27
G28
G29
G30
G31
G32
G33
G34
G35
G36
G37

--- : Refined EPM's requested by Govn't.

○ : Points at which population was split in original AMS Study (see following page).

1/ Partially based on AMS 1980 data.

Figure 3.2 (Page 2 of 2)

Split Points in Tree Diagram[1]

Split Point:	Definer of Latest Split
A	All applicants
B	Dependents
C	Independents
D	Estimated taxes
E	Used tax form, did not have to file or left blank space
F	BEOG or PHEAA
G	ACT or CSS
H	SEI not over 400
I	SEI over 400
J	BEOG or PHEAA
K	ACT or CSS
L	SEI = 0
M	SEI greater than 0
N	Savings 0 or blank
O	Taxes paid not over $2,000
P	Taxes paid over $2,000
Q	House value = 0 or missing
R	House value greater than 0
S	SEI not over 200
T	SEI over 200
U	Exemptions = blank, 0 or 1
V	Exemptions = greater than 1
W	Processed by April 30
X	SEI never has changed
Y	Both parents' positions are greater than zero
Z	First choice school is university or blank
AA	Total income less than or equal to $10,000
BB	Taxes less than 5% of AGI or both figures zero
CC	Taxes over 5% of AGI
DD	Processed by April 30
EE	Processed after April 30
FF	Taxes paid not over $500
GG	SEI less than or equal to 1200
HH	Taxes paid greater than zero
II	Taxes over 15% of AGI
JJ	SEI not over 600

[1] Data from AMS, 1980

3.3.1 The SDC Selection and Criterion Transactions

To measure changes in an applicant's EI as a result of validation, SDC compared the EI on the transaction on which the applicant was selected for validation with the applicant's EI on the "criterion transaction", that is, the most accurate transaction for that student. Because students behave differently after validation selection--some correcting, some not, some reentering the processing system, some not--the transaction selected as the most accurate transaction differed among students:

- For recipients, applicants who were paid on the validation selection transaction or afterwards, the payment transaction was considered the criterion transaction.

- For ineligible and rejected applicants, applicants who were not paid at or after validation selection and whose latest official transaction is different from the selection transaction, then the latest official transaction was considered the criterion transaction. (Note that here the SDC study differs from the AMS analysis which excluded rejected students.)

- For the applicants who were not paid on the selection transaction and did not reenter the processing system after being selected for validation, the criterion transaction is considered missing.

In terms of transactions, the definitions of the categories of the dependent variable are as follows:

Type I - Exact Reporters

Applicants whose EI on the criterion transaction is less than 50 points above or below their EI on the selection transaction.

Type II - Over-claimers

Applicants whose EI on the criterion transaction is 50 points or more above their EI on the selection transaction.

Type III - Under-claimers

Applicants whose EI on the criterion transaction is 50 points or more below the EI of the selection transaction.

Type IV - Missing Applicants

Students who do not reenter the system after being selected for validation.

Type V - Rejected Applicants [4]

Those applicants who reentered the processing system after validation selection but who were rejected on their last official transaction.

3.4 VARIABLE PREPARATION

As the next step, SDC prepared individual variables for the study. In some cases, SDC had to choose between several entries on the merged file which represented similar items. For example, it was necessary to choose from among several file entries representing student award amount and cost of education. In other instances SDC manipulated several file entries to produce one study variable. For example, SDC combined the file entries cost of education, enrollment status and EI to calculate the award each student would have received had they not been validated. The following is a list of the special variables SDC prepared for the EPM study.

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[4] AMS used the same definitions for Types I through IV. Type V applicants were excluded from their study.

- Actual Award Amount - the study generally used the PIMS file item expected disbursement (reported). When expected disbursement (reported) was missing, expected disbursement (assumed) was substituted.

- Hypothetical Pre-Validation Award - this variable was derived from matching the EI on the selection transaction, the cost of education and student enrollment status from the payment transaction with the 1980/81 Pell payment schedule. The item total student cost (reported) was generally used for cost of education. When an institution had not reported an applicant's cost of education, the study substituted a figure of $3600, the amount which the processing system would normally assume in such a case. For non-recipients the calculation of the hypothetical award was more difficult. Since no actual cost of education was available, SDC substituted the average total student cost (reported) for all Pell recipients. This average was $3067. All non-recipients were assumed to be full-time students. Because of practical difficulties associated with calculating their enrollment status, students known to attend clock-hour schools were excluded.

3.5 TREATMENT OF MISSING VALUES

The last step in data preparation was to determine how to treat missing data. SDC minimized the number of missing data by simulating the compute edits process in the present automated processing system. In cases where omitted data can easily be inferred from other responses on a student's application, the Pell processing system assumes a value. These assumed values are not entered on the student's record. Therefore, SDC programed its computer to make the same assumptions for the EPM study that the Pell Grant processing system would ordinarily make. This procedure greatly reduced the number of missing data. In cases where data remained missing even after the simulation of the compute edits, SDC set the missing value equal to zero when appropriate. Decisions to convert missing data to zero were made on a variable-by-variable basis in consultation with CSFA.

4.0 SEQUENCE OF ANALYSIS

To evaluate the Basic Grants Error Prone Model, SDC updated several tables prepared by AMS. These tables appeared in the AMS study as tables 3.10, 6.1, 6.3 and 6.4. To facilitate comparisons between the two studies, the same table numbers have been retained in this report. In addition, three new tables were generated: the "Recipient/Non-Recipient," "Ineligibles," and "Overlap" tables. The Recipient/Non-Recipient tables compare the corrections behavior of applicants who received awards to that of those who did not. The Ineligibles table demonstrates the potential effects of applying the existing PEC's and EPM's to students ineligible for awards under present program requirements. The Overlap table shows the extent to which the existing PEC's and the EPM groups overlap in terms of the students they identify as misreporters.

At OSFA request, all but two of the tables are based on both the Random and PEC samples. The Overlap tables were generated from the PEC sample alone. The Ineligibles table uses data only from the sample of ineligible applicants. The following analysis compares the SDC tables and the AMS tables. It also compares the data from SDC's Random and PEC samples. In addition, highlights from individual tables are presented.

Tables based on the SDC Random Sample are comparable to those AMS based on its Working and Replication Samples and can, therefore, be used to show cross-year change. Each of the tables, except the Ineligibles table, should be seen as a test which potential criteria must pass. At OSFA request, criteria which are met by less than one-half of one percent of the sampled population are generally not discussed. However, a few criteria which were met by less than this percentage were included because they were highly effective at identifying misreporting and may result in government savings as high as those from criteria met by larger numbers of students.

EPM criteria only. Second, SDC generated two versions of each of the tables in this study. One version is based on the Random Sample while the other is based on the PEC Sample. The PEC Sample is, by definition, composed of error-prone students. Thus, tables generated from the PEC Sample invariably contain more misreporters and more serious misreporting than do their counterparts in the Random Sample. There is no reliable means of simulating PEC experience for Random Sample applicants since the PEC's could only be tested against the PEC Sample. Thus, comparisons of tables based on the two samples provide little more than indirect confirmation that PEC-based selection for validation is more effective than random selection. For the Ineligibles table SDC simulated PEC experience through the use of verify codes. However, this procedure has severe limitations and should not become the basis of an entire study. Not every PEC is linked to a verify code. And, the option by which the student verifies several items simultaneously prevents isolation of the individual items that the student verified.

Figure 4.1 Sequence in which Tables should be analyzed

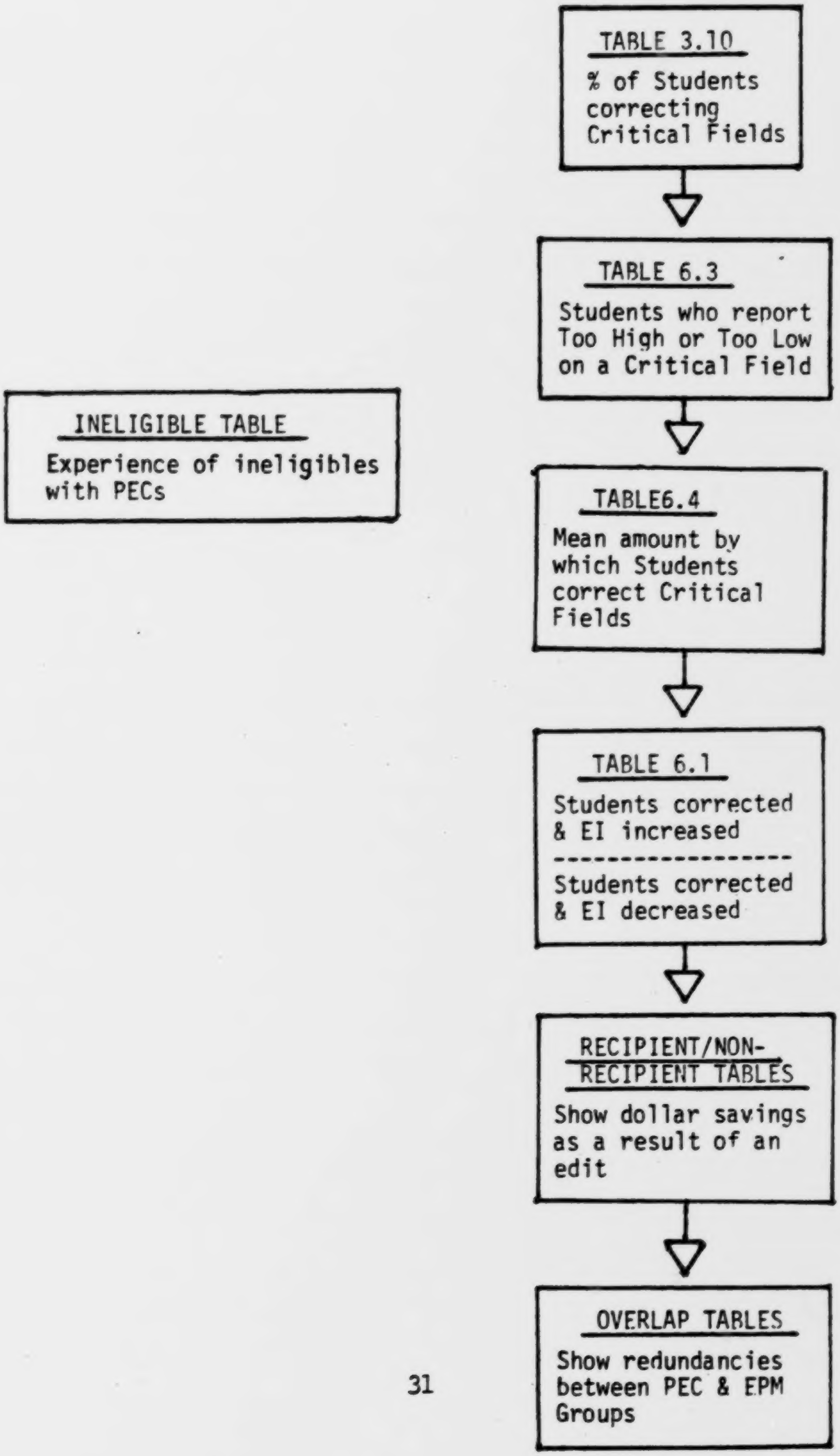
TABLE 3.10
% of Students correcting Critical Fields
TABLE 6.3
Students who report Too High or Too Low on a Critical Field
TABLE6.4
Mean amount by which Students correct Critical Fields
TABLE 6.1
Students corrected & EI increased
Students corrected & EI decreased
RECIPIENT/NON-RECIPIENT TABLES
Show dollar savings as a result of an edit
OVERLAP TABLES
Show redundancies between PEC & EPM Groups
INELIGIBLE TABLE
Experience of ineligibles with PECs

5.0 ANALYSIS

5.1 TABLE 3.10 ANALYSIS

The 3.10 Tables (See Appendix A) are the best tables from which to draw initial choices for validation selection criteria. They show the percentages of validation applicants with post-selection corrections to critical fields (i.e., fields which affect EI calculation).

5.1.1 Cross-year Change

Since the AMS researchers did not specify the sample on which they based their conclusions, it is difficult to know which of SDC's samples can validly be compared to the AMS data. Because the Pell Grant processing system does not check randomly selected students against the PEC's, it was necessary to compare AMS' findings with the data in the SDC PEC sample. Group-to-group comparisons year-to-year are difficult due to changes in group definitions (i.e., A1 in 1979/80 is not the same group as A1 in 1980/81). However, it is possible to determine that students correct AGI and Taxes Paid more often than other variables.

5.1.2 The Random Sample

In the Random Sample, the EPM and Other Groups To Test[5] criteria met by large numbers of students who misreport are: G2, G3, G4, G5, G6, G7, G8, G9, G10, G17, G19D, G24, G36 and Other 3A and 3B. In each case, more than 25% of the members of each of these groups have corrected a particular critical application field or fields.

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[5] Also referred to as "Other Groups".

5.1.3 The PEC Sample

SDC selected as the most effective pre-established criteria those in which more than 40% corrected a particular item or items, or those in which the percentage correcting a particular item was far larger than the percentage correcting that item in any other group. The criteria meeting these requirements in 1980/81 included A2, A3, A7, A8, A9, A10, A11, A13, A14, A15, A20 and A21.

Numerous PEC splits, groups which were not tested against the 1979/80 data, also had high levels of misreporting in the PEC Sample. These groups are:

> A2I3, A2II2, A3I1, A3II3, A3III2, A6III2, A7I1, A7I2, A7II2, A7III1, A7III2, A8I1, A8I2, A8II2, A8III1, A8III2, A9I1, A9I2, A9II2, A9III1, A9III2, A10II2, A10III2, A13III1, A14I1, A14I2, A14II1, A15I1, A15I2 and A15II1.

At least 40% of the students meeting these criteria misreported in at least one critical field.

In the discussion of each table, SDC focuses on the EPM criteria which are promising from the perspective of the Random Sample. Such a focus is necessary because only the Random Sample truly represents the Pell Grants population. In addition, the PEC Sample is less likely to reveal EPM criteria which would prove effective at detecting misreporting in the Pell population. Since it is useful to understand any systematic differences between the PEC and Random samples, SDC will discuss the performance of the EPM criteria in the PEC Sample versions of each table.

On Table 3.10, the EPM groups with the largest percentages of misreporters were the same as those in the Random Sample with the addition of Groups 11B, 11D, 15C, 19B, 25B and 29. In both samples the most frequently corrected fields were Adjusted Gross Income (AGI) and Taxes Paid. As expected, PEC Sample applicants tended to correct particular fields more often than Random Sample applicants.

The next table, Table 6.3, analyzes these criteria from a different perspective. It indicates the direction of the post-validation corrections for students meeting each criterion.

5.2 TABLE 6.3 ANALYSIS

While Table 3.10 identified criteria met by large numbers of applicants making corrections, Table 6.3 (See Appendix A) shows whether those students reported to their advantage or disadvantage.

5.2.1 Cross-year Comparison

Thirteen EPM criteria and two "Other Groups" had large numbers of applicants correcting in SDC's 1980/81 Random sample: G2, 3, 4, 5, 6, 7, 8, 9, 10, 17, 19L, Other 3A and 3B. All groups contained predominantly students reporting to their advantage (i.e., underreporting their AGI). For this table AMS apparently used one of its two 1979/80 validation samples. SDC found that in 1980/81 the majority of applicants meeting criteria 2, 3, 4, 5, 7, 8, 10, Other 3A and Other 3B misreported AGI to their advantage. On the other hand, in 1979/80 the majority of students misreported AGI meeting criteria 2, 4, 5, 7, 8, 9, 10 and 24. Criteria 10 and 36 had more students underestimating than overestimating their taxes in 1980/81, while a year earlier students misreporting taxes to their advantage and disadvantage were equally numerous in all criteria groups. In the 1979/80 and 1980/81 processing years groups 11, 17 and 19 contained large numbers misreporting Non-Taxable Income (NTI) to their advantage.

The AMS study of 1979/80 Pell applicants does not include data that would enable SDC to compare the direction of change in critical fields for students meeting particular pre-established criteria. Therefore, Figure 5.1 makes cross-year comparisons for EPM criteria only.

5.2.2 The PEC Sample

The 1980/81 applicants who met PEC's in SDC's PEC Sample overwhelmingly misreported to their advantage. Of the PEC Groups with large numbers correcting (see Table 3.10), A2, A3, A8 and A10, all underreported their income. Students meeting criteria A7, A8, A9 and A10 exaggerated the taxes they paid. Groups 11, 14, 15, 20 and 21 underestimated their non-taxable income.

The PEC split criteria were first specified for the 1980/81 study. Split criteria with large numbers of applicants exaggerating ACI include:

> A2I3, A2II2, A3I1, A3II3, A3III2, A8I2, A8II2, A8III1, A8III2, A10II2, A10III2.

Split criteria met by students exaggerating taxes include:

> A2II2, A7I1, A7I2, A7II2, A7III1, A7III2, A8I1, A8I2, A8II2, A8III1, A8III2, A9I1, A9I2, A9II2, A9III2, A10II2 and A10III2.

Split groups met by large numbers misreporting NTI are:

> A14I1, A14I2, A14II1, A15I1, A15I2, A15II1.

5.2.3 Comparison Of The 1980/81 Random And PEC Sample

As explained above, only the EPM's and EPM split criteria can be compared between the 1980/81 Random and PEC samples. In general, students from the PEC Sample misreport to their advantage in the same fields as those in the Random

Table 5.1 Cross-year Comparison of Percentages Misreporting Major Fields
(Page 1 of 2)

	NTI[1]		AGI[2]		Taxes[3]		HS[4]		PHE[5]	
GROUPS	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
EPM GROUPS										
G2	1.0	6.0	20.0	38.0	16.0	26.0	11.0	35.0	***	--
G2	3.07	10.06	10.34	28.77	15.36	17.60	7.26	2.79	4.75	1.68
G3	5.3	15.2	12.1	17.7	13.3	15.5	11.7	33.0	--	--
G3**	2.87	7.94	13.67	27.01	14.99	13.67	4.52	3.31	3.75	2.21
G4	4.3	5.6	24.4	47.0	27.8	35.9	36.8	43.2	--	--
G4	3.59	7.83	17.61	32.28	20.22	25.76	3.04	5.00	2.07	3.04
G5	4.7	5.5	15.0	35.4	19.7	33.1	29.1	36.2	--	--
G5	5.93	8.15	18.15	20.00	11.85	18.52	2.22	5.19	2.96	2.22
G7	0.0	1.1	18.2	39.8	22.7	36.4	21.6	48.9	--	--
G7	1.12	2.24	9.33	38.06	25.75	25.00	2.24	2.24	4.10	3.73

Footnotes:

[1] NTI - Non Taxable Income
[2] AGI - Adjusted Gross Income
[3] Taxes
[4] HS - Household Size
[5] PHE - Post High Education

Upper level figures from 1979/80; lower level figures from 1980/81.

* Denotes that this EPM Group was among the leaders in identifying misreporters in 1979/80.

** This EPM Group led in 1980/81 only.

*** AMS did not report on PHE in 1979/80.

Table 5.1 (Page 2 of 2)

Cross-year Comparison of Percentages Misreporting Major Fields

GROUPS	NTI[1]		AGI[2]		Taxes[3]		MS[4]		PHE[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
EPM GROUPS										
G8	2.2	0.0	7.6	50.0	21.7	32.6	13.0	48.9	--	--
G8	0.52	2.58	8.76	34.54	26.80	18.56	2.06	2.58	4.12	2.58
G9	0.0	0.0	7.3	31.3	17.7	25.0	17.7	29.2	--	--
G9	1.37	1.83	13.50	30.43	23.11	24.94	1.60	38.90	3.89	3.43
G10	1.5	3.7	8.9	38.5	27.4	22.2	14.1	48.9	--	--
G10**	0.53	2.12	9.28	35.01	28.91	19.10	29.18	5.57	2.12	4.77
G11*	6.6	20.3	4.8	6.2	5.3	2.2	5.7	11.5	--	--
G11B	2.91	4.60	2.18	5.57	9.69	3.63	3.39	2.18	2.91	0.73
G11*	6.6	20.3	4.8	6.2	5.3	2.2	5.7	11.5	--	--
G11C	0.00	9.81	2.18	8.45	1.63	6.27	3.81	1.63	2.72	0.54
G11*	6.6	20.3	4.8	6.2	5.3	2.2	5.7	11.5	--	--
G11D	11.84	20.39	0.99	4.11	0.82	1.97	5.26	2.14	1.97	1.15
G17	8.9	26.4	2.1	6.7	0.2	1.1	2.5	11.9	--	--
G17	8.43	21.37	0.40	3.85	0.13	0.86	4.51	2.46	2.12	1.19
G19	13.2	18.0	9.0	9.9	0.0	10.8	27.5	22.2	--	--
G19B	2.87	12.24	6.31	6.50	0.00	15.30	17.72	4.97	1.53	4.02
G19	13.2	18.0	9.0	9.9	0.0	10.8	27.5	22.2	--	--
G19C	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G19	13.2	18.0	9.0	9.9	0.0	10.8	27.5	22.2	--	--
G19D	13.36	20.26	4.31	3.02	0.00	0.86	2.59	3.02	3.45	2.59
G24	1.4	1.4	5.3	23.9	40.8	5.6	8.5	52.1	--	--
G24	5.24	6.28	4.71	13.61	32.98	2.09	1.05	3.14	1.57	0.52
G36	3.8	3.8	7.7	26.9	30.8	11.5	11.5	53.8	--	--
G36**	2.03	2.36	6.76	14.86	25.68	4.39	1.35	1.69	2.03	0.68

Sample, but they misreport in greater proportions. In the PEC Sample misreporting clustered in AGI, NTI and taxes. A typical EPM criteria is 19C. Fifty percent of the PEC sample students in 19C understated their NTI while only 17% of their Random Sample counterparts did so. Household Size (HS) provides two exceptions to this rule. Although Random Sample applicants meeting criterion 9 greatly underestimated and those meeting criterion 10 greatly overestimated HS, their PEC Sample matches did not.

Although the direction in which students correct critical fields is known, it is still not possible to recommend criteria for the 1982/83 processing year. It must first be determined whether those corrections are sizeable enough to make the validation process cost-efficient. Table 6.4 provides the measures of magnitude needed to do this.

5.3 TABLE 6.4 ANALYSIS

The 6.4 (See Appendix A) tables show the average magnitude by which students misreport in critical fields. Average "positive discrepancy" refers to the magnitude of student underestimation of a field while average "negative discrepancy" refers to the magnitude of overestimation.

5.3.1 Cross Year Comparison Of The 1980/81 Random Sample Findings And The 1979/80 Findings

Table 6.4 is only roughly comparable to the earlier version of Table 6.4 generated by AMS. First, the AMS table reported only on EPM criteria. Second, AMS averaged positive and negative discrepancies to critical fields, whereas SDC provided separate mean averages for positive and negative discrepancies. Third, AMS included in its averages students who made no corrections after validation. Since the SDC Table 6.4 and Table 6.3 include only students correcting after validation, the discrepancies identified in 1980/81 are much larger than those found in 1979/80. If it can be assumed that AMS generated this table from either its working or replication sample, then the SDC Random Sample Table can be compared to the AMS Table 6.4 to see if the criteria with the largest discrepancies are the same in both years.

The AMS study found that the most serious misreporting involved AGI, NTI and Taxes Paid. The 1979/80 study identified seven criterion groups notable for the size of their discrepancies on AGI: 2, 3, 4, 5, 7, 10 and 24. In 1980/81 the Random Sample version of Table 6.4 shows unusually large corrections made on NTI, AGI and Taxes Paid. On NTI, all 13 EPM criterion groups and Other Groups 3A and 3B (identified from Random Sample Table 3.10 as containing large numbers of applicants who made corrections) have a mean negative or positive discrepancy of at least $1747. Eleven of the 13 groups have a mean negative or positive discrepancy of at least $2000. Positive and negative discrepancies on NTI do not seem systematically different. On AGI, 14 of the 15 other criterion groups with significant numbers correcting, have at least one category of discrepancy with more than $2000 as the average. Table 6.4 shows that tax overestimations are not systematically different from underestimations. In all groups except G36, students misreport by $500 or more in at least one direction. Table 6.4 is the first table on which group 24 is notable for misreporting. Students meeting criterion 24 grossly misreported in both directions, with $1770 the average underestimation and $1994 the average overestimation. Errors on household size and the number in post-secondary education ranged from 1.0 to 2.5 for all criteria met by significant numbers of students who correct. For a comparison of 1979/80 and 1980/81 data, see Table 5.2 on the following page.

5.3.2 Comparison Of The Random And PEC Samples

The Random and PEC Sample versions of Table 6.4 can be compared by EPM criteria. They do not differ systematically and in neither sample can one say that overestimations generally differ in size from underestimations. Those EPM criteria which, in Table 3.10, were met by large numbers of PEC Sample

Table 5.2 Cross-year Comparison of Mean Positive and Mean Negative Discrepancies and Mean Net and Absolute Discrepancies in Critical Fields

	NTI				AGI				TAXES			
	(SDC)		(AMS)		(SDC)		(AMS)		(SDC)		(AMS)	
	Mean+	Mean-	Net[1]	Abs.[2]	Mean+	Mean-	Net[1]	Abs.[2]	Mean+	Mean-	Net[1]	Abs.[2]
G2	2,285	1,730	87	134	3,117	3,076	1,230	2,230	628	335	103	202
G3	2,570	1,549	325	487	3,270	3,324	455	1,002	666	935	41	128
G4	3,061	2,479	-174	282	2,788	4,338	412	1,493	754	410	166	366
G5	1,747	825	-18	184	2,708	7,003	264	1,143	1,165	550	230	355
G6	1,794	542	-488	548	1,718	2,365	98	608	556	437	56	110
G7	2,016	2,528	22	22	2,528	1,404	802	1,193	587	544	68	298
G8	1,421	2,000	-4	4	2,280	2,329	491	979	656	529	-67	288
G9	669	3,867	0	0	2,390	2,165	333	516	856	542	73	239
G10	562	2,502	131	148	2,672	2,156	567	1,165	696	735	-173	426
G19D**	2,366	3,841	-85	773	3,440	3,658	100	583	589	N/A[3]	144	144
G24	1,193	3,509	-117	239	5,696	981	85	1,145	1,770	1,994	-312	447
G36**	1,324	1,197	16	76	965	1,455	294	306	276	369	-83	109

Footnotes:

NTI = Non Taxable Income
AGI = Adjusted Gross Income

[1] Net discrepancies are averaged without taking the absolute value, so that overreporters and underreporters could cancel each other out. Selection value is subtracted from criterion value.

[2] Abs. = Absolute Value

[3] N/A = Not Applicable

**EPM selected by SDC only.

applicants making corrections (24, 25B and 29), the magnitude of the corrections is very large for the PEC Sample. For example, in G29 the average negative discrepancy was $8307 for taxes; and, in G17, the average positive and negative discrepancies for income were both over $9000.

5.3.3 The PEC Sample

From the 1980/81 PEC Sample, SDC examined the PEC and PEC split criteria shown (in Table 3.10) to have large percentages of students correcting critical fields. These criterion groups tended to include students with far larger average discrepancies than did the EPM groups of either sample. Although the 1980/81 Random Sample EPM criterion groups seldom have errors as high as 2 on household size, the PEC groups often showed misreporting of household size by more than 2, with some groups reaching 8.5. In the PEC criterion groups discrepancies of $5,000 were common on AGI. In the EPM groups, NTI and AGI errors ranged closer to $2,000. Within individual PEC groups, discrepancies to the student's advantage tend to be larger than discrepancies to the student's disadvantage in the critical fields NTI and Taxes Paid.

In addition to knowing that students correct critical fields (and by large amounts), the cumulative effects of these changes on EI must also be determined. Table 6.1 will measure the effects of multiple corrections on EI.

5.4 TABLE 6.1 ANALYSIS

Table 6.1, the Group Summary Chart, shows the effects of the validation process on EI (See Appendix A). It takes into account the effects of multiple corrections on any one application, and is, therefore, one of the most useful tables in this study.

5.4.1 Cross-year Comparison Of 1980/81 Random Sample Findings And 1979/80 Findings

AMS derived Table 6.1 (See Appendix F) from its 1979/80 Working and PEC Samples. From the 1979/80 data, AMS identified EPM criteria 1 through 10 (groups of dependents estimating taxes), 21 and 24 as those with large numbers correcting with an EI change of fifty or more points. In the 1980/81 Random Sample data, SDC found misreporting concentrated in criterion groups 4, 6, 7, 8, 9, 10, 19B, 19D, 21 and 24. Each of these groups had 30% or more of its students misreporting. Although G36 was again only marginally effective at identifying misreporters, it was retained on the SDC list because it identifies a larger percentage of misreporters than any of the other criteria dealing with independents. Of the "Other Groups", 3B had 41% of its members correcting with at least a fifty point EI change. Table 5.3 illustrates the differences between the two years.

Some of the Random Sample criterion groups identified in Table 3.10 as having large percentages of misreporters have been eliminated from consideration as potential criteria. For example, criteria G2, 3 and 19D detected too few students whose corrections resulted in a significant EI change. Criterion G5 was rejected because only a small percentage of the sample members met its requirements. Of the EPM criteria which did not seem promising on the Random Sample version of Table 3.10, only 19B and 21 seem effective on Table 6.1.

SDC originally decided to focus its analysis on criteria which seemed promising in the Random Sample. This choice was made because, since only the Random Sample is truly representative of the Pell Grants population, it was considered unlikely that the PEC sample would yield any criteria which would prove effective for the entire Pell population. The Random Sample version of Table 6.1 is the best test of the ability of a criterion to detect misreporting. A criterion which appears effective on this table would probably be equally

Table 5.3 Cross-Year Comparison of EPM Groups Drawn from the Group Summary Table 6.1

Random Sample

GROUPS	%	I	II	III	IV	V[1]
EPM GROUPS						
G1*	1.5	53.3	8.9	2.8	35.0	--
G1	1.39	61.38	9.69	2.64	22.61	3.67
G2*	1.2	37.3	19.3	3.6	39.8	--
G2	0.91	57.75	19.78	3.60	17.53	1.35
G3*	2.4	51.5	21.2	5.0	22.4	--
G3	2.25	58.49	17.98	6.90	15.44	1.18
G4	2.1	35.4	24.3	21.5	18.8	--
G4	2.26	40.18	25.34	20.00	13.39	1.09
G5*	1.3	36.0	19.4	17.1	27.4	--
G5	0.42	31.40	17.87	17.87	30.92	1.93
G6	1.5	46.2	12.0	12.5	29.3	--
G6	0.50	53.04	16.60	13.77	14.98	1.62
G7	0.7	39.4	35.6	9.6	15.4	--
G7	0.63	46.77	30.32	10.97	10.97	0.97
G8	0.8	55.8	21.2	4.4	18.6	--
G8	0.49	44.96	31.09	6.30	15.13	2.52
G9	1.0	49.6	13.7	5.8	30.9	--
G9	1.14	40.07	23.79	16.99	17.17	1.97
G10	1.5	32.2	26.8	6.8	34.1	--
G10	0.95	40.34	31.55	10.30	15.45	2.36
G19	3.3	42.0	12.8	17.5	27.7	--
G19E**	1.27	45.26	14.45	24.88	14.45	0.96
G21	1.0	40.0	8.1	22.2	29.6	--
G21	0.86	50.59	12.11	20.43	16.15	0.71
G24	0.8	33.0	25.9	4.5	36.6	--
G24	0.47	45.26	29.31	9.05	16.38	0.00
G36	0.4	12.7	17.7	2.5	67.1	--
G36**	0.89	44.39	19.22	10.98	24.03	1.37

Footnotes:

I = Exact reporters (ie., applicants whose EI changed less than 50 points)
II = Over-claimers (i.e., applicants whose EI increased by 50 points or more)
III = Under-claimers (i.e., applicants whose EI lowered by 50 points or more)
IV = Missing (i.e., applicants with no transaction after selection for validation)
V = Rejected

Upper level figures from 1979/80; lower level figures from 1980/81.

[1] AMS did not include rejected in their study, thus there is no comparable column in 1979/80.

*Denotes that this EPM Group was among the leaders in Error-identification in 1979/80 only.
**This EPM Group led in 1980/81 only.

effective if tested against the entire Pell population. Only two EPM criteria which appear effective in detecting misreporting on Table 6.1 did not seem promising on Table 3.10: G19B and G21. Of the EPM criteria in the 1980/81 PEC Sample which seemed promising on Table 3.10 only 19F remains so on the Random Sample version of Table 6.1. Thus, SDC's earlier decision to focus on the promising criteria from the Random Sample rather than the PEC Sample seems justified.

In both years, one striking fact that Table 6.1 reveals is the large percentage of "missing" independent students, that is, independent students who did not reenter the system after being chosen for validation. In 1980/81 eight of the 14 groups dealing with independents had 25% or more of their students missing. In both years, the criteria identifying the independent students were also notable for their small proportions of misreporters. AMS concluded that, because their sample of non-validated students had similar proportions missing in these EPM groups, the deterrent effects of validation were not responsible for the high number of students missing.

The AMS report concluded that the high number of applicants who did not reenter was probably due to the mid-year formula change. Since no comparable change could have affected the 1980/81 independents, we suspect that independents are generally more likely than dependents to quit the processing system. Possibly dependent students who have deliberately listed their status as independent in hopes of a higher award are fleeing the system. Or, it is possible that students are less likely than parents to keep the records required for the Pell Grant validation process. It is also possible that independent students as a group are demographically and economically different from dependent students, and therefore, their motivations to enroll in school and complete the Pell Grant process are different. Thus, independents may find the process particularly intimidating. OSFA may wish to investigate this phenomenon further.

5.4.2 The 1980/81 PEC Sample

Nine EPM criteria significant in the 1980/81 Random Sample were also important in the PEC Sample:

G4, 6, 7, 8, 9, 10, 19B, 24 and 36.

On the PEC Sample version of Table 6.1 at least 30% of the applicants meeting the following criteria misreported with a significant EI change:

G14, 15C, 18, 19D, 20, 21, 22, 23F, 23G, 25B, 34, 37, Other Groups 3A, 3B and 3D.

In general, the percentages misreporting in any one EPM criterion group tend to be larger in the PEC Sample than in the Random Sample.

The PEC criteria were, of course, only tested on the PEC Sample in 1980/81. Eleven PEC groups, all noteworthy on Table 3.10, contained 30% or more misreporting to their advantage rather than to their disadvantage. The criterion groups are:

A2, A7, A8, A9, A10, A11, A14, A15, A18, A20 and A21.

On Table 6.1 25 PEC Split groups contained 30% or more misreporting:

A2I3, A2II1, A2II2, A7I1, A7I2, A7II2, A7III1, A7III2, A8I1, A8I2, A8II2, A8III1, A8III2, A9I1, A9I3, A9II2, A9III1, A9III2, A12IV3, A14I1, A14I2, A14II1, A15I1, A15I2 and A15II1.

Several of these criteria were especially effective at identifying misreporters, each detecting 40% or more who misreported in one direction:

A2II2, A7I2, A7III1, A8I2, A8II2, A8III1, A12IV3, A14I1, A14I2, A14II1, A15I2 and A15II1.

The criteria below account for higher percentages of misreporters in both directions than the other splits of their parent PEC groups:

A2II2, A3III1, A6V1, A7III1, A8III1, A12IV3, A14I2 and A15I2.

Only A2II1 and A12IV3 did not appear as promising criteria on Table 3.10.

5.5 RECIPIENT/NON-RECIPIENT ANALYSIS

Recipient and Non-Recipient tables (See Appendix A) were prepared for both the EPM and PEC samples. Recipient tables contain data on the applicants who received Pell Grants. Data for all other applicants (ineligible, rejected, and missing) appears on the Non-Recipient tables. The Recipient tables underestimate savings since, by definition, they exclude those applicants who correct to the extent that they become ineligible.

These tables can be used to determine whether validation on the basis of any of the criteria identified on other tables (as likely to contain misreporters) actually results in large savings. If the amount saved per applicant is very small, one might not want to select a criterion despite a high rate of corrections. For the EPM and PEC criteria which seemed promising on Table 6.1, the average amounts recovered per applicant as a result of validation were substantial (see following Table 5.4). Most of the EPM criterion groups averaged a change between $200 and $300 per applicant. "Other Group" 3B averaged $400 per applicant. More PEC than EPM criterion groups had recovered average amounts between $300 and $400. It is impossible to determine if this means that overall the PEC's identify more serious misreporters, because the PEC's were only tested against the PEC Sample. Because of the exclusion of

Table 5.4 Average Positive and Average Negative Change in Award Post Validation From the PEC & Random Recipient Tables (Page 1 of 3)

	Average + Change in Award Post-Valid	Average - Change in Award Post-Valid
Random Sample		
EPM Groups		
G4	307.32	245.48
G6	252.50	251.25
G7	188.96	193.89
G8	118.08	213.09
G9	253.35	110.37
G10	352.74	209.39
G19B	265.77	326.83
G24	267.65	239.37
G36	365.00	257.92
Other 3E	401.21	125.16
PEC Sample		
PEC Groups		
A2	225.59	382.65
A7	253.39	285.54
A8	284.59	304.19
A9	281.32	334.49
A10	278.80	384.30
A11	269.47	280.14
A14	307.04	316.75
A15	256.47	301.66
A18	NA*	414.00
A20	259.58	277.89
A21	268.28	297.67

*Not applicable

Table 5.4 (Page 2 of 3)

Average Positive and Average Negative Change in Award
Post Validation From the PEC & Random Recipient Tables

	Average + Change in Award Post-Valid	Average - Change in Award Post-Valid
PEC Splits		
A2I3	233.38	386.41
A2II1	287.56	393.11
A2II2	60.33	351.76
A7I1	238.35	302.34
A7I2	260.69	279.92
A7II2	253.39	285.54
A7III1	245.39	295.19
A7III2	261.39	272.62
A8I1	309.92	287.05
A8I2	275.65	309.31
A8II2	284.59	304.19
A8III1	292.61	313.55
A8III2	272.11	283.90
A9I1	295.81	320.64
A9I2	333.56	357.45
A9I3	47.33	309.21
A9III1	222.17	373.24
A9III2	325.69	325.32
A12IV3	507.38	268.69
A14I1	337.57	337.28
A14I2	271.00	257.68
A14II1	304.00	410.64
A14II2	NA*	300.00
A15I1	223.15	312.98
A15I2	224.86	282.01
A15II1	805.40	354.54

* Not applicable

Table 5.4 (Page 3 of 3)

Average Positive and Average Negative Change in Award Post Validation From the PEC & Random Recipient Tables

	Average + Change in Award Post-Valid	Average - Change in Award Post-Valid
PEC Sample		
EPM Groups		
G14	390.00	248.77
G15C	331.20	404.40
G18	258.88	350.02
G19D	251.66	245.26
G20	186.79	320.02
G21	236.85	239.85
G23F	295.33	255.43
G23G	295.85	274.57
G25B	378.00	215.73
G34	638.46	321.28
G37	400.93	346.21
Other 3A	255.80	334.54
Other 3B	499.10	131.34
Other 3D	486.62	142.54

those who become ineligible all of these figures underestimate savings. But, it is certain that criteria identified as promising on Table 6.1 eventually translate into substantial savings.

To calculate change in award as a result of validation, SDC generated a hypothetical award which the student would have received at the time of validation selection. Future researchers should be aware of the difficulties associated with this procedure. For many applicants the entries for enrollment status and cost of education are missing from the PIMS file. With CSFA agreement, SDC assumed values when these entries were blank. In some cases, SDC may have assumed full-time status for a part-time student or a $3600 education cost for a student with unusually low costs. Clock-hour students with pro-rated awards may have been calculated as full-time if their enrollment status data was missing. Schools sometimes erred in determining student awards. In some cases where SDC did not make an assumption, schools reported to the government expected disbursements which do not appear on the payment schedule. Such problems distort the change in award amount as a result of validation.

5.6 OVERLAP ANALYSIS

The Overlap tables (a) and (b) (See Appendix A) measure the extent to which individual EPM criteria and the existing PEC's identify the same students. To maximize the effectiveness of its validation selection criteria, ED should avoid overlap by not selecting a category which overlaps heavily with a more effective category.

5.6.1 Cross-year Comparison

AMS did not produce overlap tables for the 1979/80 data; therefore, changes from year to year cannot be ascertained. AMS briefly mentions that it used multilinear regression to compare the EPM's and PEC's. The AMS report concluded that "the EPM improves the PEC much more than the PEC improves the EPM".[6] Because SDC confined its study to cross-tabulations, it is not possible to determine whether this statement holds for the 1980/81 data.

Overlap table (a) looks at EPM criterion groups which match PEC groups. SDC suggests that in future studies ED not generate Table (a) unless a reliable way can be found to assess the experience of Random Sample students with PEC's. Since students who are randomly selected for validation are never checked against the pre-established criteria, their records show no PEC experience. Therefore, it was necessary to base the SDC tables on the random sample of 19,128 applicants selected for validation on the basis of a pre-established criterion. The EPM model assigns every member of the Pell Grant population to an EPM group. However, not every Pell applicant meets a PEC. Thus, EPM groups in which no students meet a PEC are not represented in these tables. Hence, row percentage totals cannot be subtracted from 100 percent to identify EPM groups which do not match PEC's. It is possible for an applicant to meet more than one PEC. A look at the overlap between individual EPM's and PEC's tells us little, since, as explained above, some EPM's have been excluded through the use of the PEC sample.

Overlap Table (b) looks at PEC groups which match EPM's. Here we can see the percentage of students meeting a specific PEC who also meet a specific EPM. There are some cases of more than 20% overlap:

> A2-G3, A8-G3, A8-G10, A5-G26D, A6-G17, A10-G27, F-G26C, F-G28, A5-G32, A5-G33, A9-G37, and A10-G37.

Of the criterion groups identified as having substantial numbers of misreporters in Table 6.1 (G4, 6, 7, 8, 9, 10, 19B, 19D, 24, and 36), only G8, 10 and 24 have more than a slight overlap with any PEC group. SDC suggests that ED not subject an applicant who meets a PEC edit to the EPM edit with which it is paired, and vice-versa. We caution that, because we used the PEC sample, these matches are unlikely to be those that would result if we compared EPM and PEC experience for the entire population. If we were able to use the Random Sample, (i.e. a sample truly reflective of the Pell Grant population), we might well discover additional overlapping pairs or even that the pairs of edits identified here do not overlap in the Random Sample.

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[6] AMS, 1980, p. 8.4.

5.7 INELIGIBLES ANALYSIS

The data show that the existing system of PEC criteria does not identify error-prone applications for students with EI's above 1600. No more than 1.48 percent of the ineligible sample meets any one PEC or PEC split. The ineffectiveness of the PEC's is not surprising. Most of the present criteria require that a student be rejected at some point in the application process. Since most ineligible students are determined ineligible on their first transaction, they do not have an opportunity to become rejected and, hence, eligible for a PEC.

Although only negligible numbers of ineligibles meet any PEC or PEC split, A1 and A7 identify the largest numbers of students. In the sample of 14,086 ineligible applicants, 186 or 1.32% met PEC A1 and 209, or 1.48%, met PEC A7. A1 focuses on students whose mothers' and fathers' portions, when combined, exceed 120% of AGI. A7 identifies students who report AGI and tax figures which are inconsistent. A7's relative effectiveness with ineligibles parallels its success at identifying misreporters overall in both the 1979/80 and 1980/81 populations (see Table 3.10 in Appendix A and Table 3.10 in Appendix B). Of the three split versions of A1, A1I3 accounts for most of the applicants identified (.94 percent of the ineligible sample). Of the six splits of A7, A7I2 (1.13%), A7II2 (1.48%) and A7III1 (1.12%) are met by the largest percentages of ineligible applicants.

6.0 FINDINGS AND RECOMMENDATIONS

SDC analyzed the data contained in a series of tables to identify those criteria which are most effective in detecting student misreporting. SDC recommends that ED incorporate 25 validation selection criteria in the 1982/83 processing system. Nine of these criteria are criteria from the Error Prone Model (EPM) or variations of an EPM criterion. 15 are existing pre-established criteria or variations of a PEC. The group of recommendations includes only one criterion from the "Other Groups".

6.1 LIST OF 25 CRITERIA IN ORDER OF PRIORITY

6.1.1 EPM

Group 19B:	dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, NTI less than AGI, and either paid no taxes or left taxes blank.
Group 4:	dependents who estimated taxes, had SEI over 400, taxes not over $2,000, no change in SEI prior to selection and were processed by May 31.
Group 7:	dependents who estimated taxes, had SEI from 401 to 1200, taxes over $2,000, both portions greater than 0, whose first choice is a university.
Group 24:	dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes over 15 percent of AGI and AGI not over $25,000.
Group 10:	dependents who estimated taxes, had SEI over 400, taxes over $2,000 and at least one portion 0 or blank.

Group 9: dependents who estimated taxes, had SEI over 1200, taxes over $2,000 and both portions greater than 0.

Group 8: dependents who estimated taxes, had SEI from 401 to 1200, taxes over $2,000, both portions greater than 0, whose first choice institution is missing or not a university.

Group 6: dependents who estimated taxes, had SEI over 400, taxes not over $2,000 and a change in SEI from a previous transaction.

Group 36: independents who filed through ACT, had SEI greater than 0, were processed by April 30, and had taxes over $500.

6.1.2 PEC

A12: Any previous transaction was rejected for medical/dental expenses exceeding $500 and 30 percent of total income and this reject reason has been verified on the current transaction. (Links to Verify Code I.)

A8: Student status is dependent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is estimated. (Links to Verify Code E.)

A14I2: Social Security amount match, dependents, whose parent(s) is/are single or married and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $500.

A14II1: Social Security amount match, independents, who are unmarried, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $100.

A14I1: Social Security amount match, dependents, whose parent is divorced, separated, or widowed, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $500.

A15I1: Social Security amount match, dependents, whose parent is divorced, separated, or widowed, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $500.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $500, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15I2: Social Security amount match, dependents, whose parent(s) is/are single or married and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $500.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $500, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15II1: Social Security amount match, independents, who are unmarried, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $100.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $100, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A7: Student status is dependent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is not estimated. (Links to Verify Code E.)

A2I3: Dependents whose sum of portions is greater than 120 percent AGI, have no farm/business debt, and taxes are not estimated.

A20: Any previous transaction was rejected for reported VA amount being negative or less than $156 but greater than $0 and not a VA match and this reject reason has been verified on this transaction. (Links to Verify Code X.)

A21: Any previous transaction was rejected for reported VA amount being negative or less than $156 but greater than $0 and reported VA amount has been corrected to an amount less than $156. (No Verify Code Link.)

A9: Student status is independent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is not estimated. (Links to Verify Code E.)

A11: Any previous transaction was rejected for medical/dental expenses exceeding $5,000 and this reject reason has been verified on the current transaction. (Links to Verify Code H.)

A10: Student status is independent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is estimated. (Links to Verify Code E.)

6.1.3 Other Groups To Test

Other 3B: Taxes are estimated, and EI is greater than or equal to 1200 and less than 1600.

6.2 BASIS FOR RECOMMENDATION OF THE 25 VALIDATION SELECTION CRITERIA

SDC recommends the 25 validation selection criteria because each of them meets four requirements. The four requirements that SDC established for each criterion are as follows:

- at least one half of one percent of the sampled applicants must meet the criterion;
- the number of exact reporters identified by the criterion must be at or below the average number identified by all criteria (this was required so that the inconvenience and expense of validating accurately-reporting students could be avoided);
- on the average, students must experience a significant change of award as a result of validation (none of the criterion groups have an average positive or negative award change of less than $100. Each group has at least one direction of award change which averages $190 or more); and,
- the criterion must be among those identifying the largest percentage of serious misreporters (that is, students whose E.I. changed enough to alter their award by at least 50 points).

In cases where the split versions of a PEC or EPM criterion were all of approximately the same effectiveness, SDC decided to recommend the original, unsplit criterion.

6.3 DESCRIPTION OF THE RECOMMENDED CRITERIA

The EPM criteria SDC recommends share several characteristics. The best EPM criteria remain those which identify students estimating taxes. Seven of the nine recommended EPM criteria identify students who estimate taxes. OSFA might wish to consider requiring the student to present a final tax form before he receives a second payment.

All of the suggested EPM criteria, except G36, deal with dependent students. G36 was the most effective of the EPM criteria dealing with independents. This criterion does not meet all of SDC's requirements. However, it is included in our recommendations because it would be useful to try at least one EPM criterion dealing with independents.

The pre-established criteria which SDC recommends that ED retain in the Pell processing system are more diverse than the recommended EPM criteria. The PEC's identify both independent and dependent students. Six criteria identify students who match on the social security check. Three criteria select students whose reported tax does not match their tax as calculated by the operating system. Veteran's benefits affect students identified by two of the recommended PEC groups. Problems with medical/dental benefits also affect students in two criteria groups.

CSFA may wish to investigate the motivations of students, independent and dependent, who fail to reenter the processing system after validation selection. If it assumes that most of these students are deliberate misreporters fearing revelation, then the fact that applicants selected by a particular criterion frequently drop out should not prevent that criterion's adoption. If however, most students who do not pursue a Pell Grant are assumed to be honest students intimidated by the prospect of validation, CSFA should be wary of adopting a criterion associated with high rates of missing applicants. PEC A10 and all of its split groups had large percentages missing.

6.4 ADDITIONAL FINDINGS

SDC found that, as in the AMS study, the items Adjusted Gross Income and Taxes Paid were the most frequently corrected items. These items were at the heart of misreporting on several tables. Errors on Non-Taxable Income were the third most frequently detected. The frequent corrections on these items probably reflect the relative ease of validating items for which there is standard documentation such as a 1040 Federal tax form.

SDC, like AMS, found that large numbers of independent students fail to reenter the processing system after selection for validation. This departure of independents may show the exit of students who, because they falsely claim to be independent, avoid validation. Or, the large percentage of missing independents may indicate that independents are less likely to keep the records validation requires than are the parents of validated dependent students. It is also possible that independent students as a group are demographically and economically different from dependent students and, therefore, their motivations to enroll in school and complete the Pell aid process are different. The Department of Education may wish to investigate this phenomenon further.

APPENDIX A

FULL TABLES

GUIDE TO READING TABLE 3.10

The 3.10 tables, Table 3.10 Random Sample and Table 3.10 Pre-established Criteria (PEC) Sample tables, show the percentage of validation applicants correcting those "critical fields", fields which affect EI calculation. Across the top of these tables are the 14 critical fields, such as Adjusted Gross Income (AGI), Non Taxable Income (NTI), and Taxes Paid (TP). The column on the far left of the tables lists the criterion group name (for example, Random Sample EPM Group "G6"). To demonstrate the method of reading these tables, look down the far left column of the Table 3.10 Random Sample to G6. Read left to right, and find that corrections to the critical fields AGI are 29.41%, corrections to the field NTI are 6.86%, corrections to the field TP are 28.43%, and so on. The rows will not always add up to 100%, since an applicant may correct several fields at once.

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

% OF VALIDATION APPLICANTS CORRECTING FIELD

CRITICAL FIELDS

GROUPS ERR GROUPS	AGI	NTI	TP	M	HS	PHE	NA	MS	VA	UT	AR	UE	TFS	PE
G1	24.75	19.56	20.96	0.40	6.99	3.99	3.23	0.20	0.00	0.80	1.00	3.19	5.59	10.37
G2	30.11	13.13	32.06	0.84	10.06	6.42	5.45	0.00	0.00	1.68	0.84	5.87	10.08	27.10
G3	40.69	10.01	26.67	0.33	7.93	5.95	6.66	0.11	0.55	1.54	2.87	6.06	10.03	23.48
G4	45.89	11.41	45.08	0.54	8.04	5.11	6.49	0.22	1.09	1.30	4.46	8.01	13.70	25.70
G5*	29.15	14.07	30.37	0.74	7.41	5.19	5.59	0.00	0.74	0.74	0.74	6.15	9.15	17.78
G6	29.41	6.86	29.43	0.00	10.29	4.90	6.19	0.49	0.49	0.49	0.49	3.43	10.78	13.73
G7	47.39	3.36	56.75	0.00	4.48	7.84	6.52	0.37	0.00	1.49	3.36	10.07	10.45	11.19
G8*	45.36	3.09	45.36	0.00	4.64	6.70	4.85	0.52	0.00	1.55	2.06	11.86	10.82	17.01
G9	47.94	3.20	40.05	0.23	5.49	7.32	7.13	0.23	0.92	0.69	2.75	10.30	11.90	11.44
G10	44.30	2.65	48.01	0.00	8.49	6.90	6.95	0.27	1.06	0.27	2.92	6.63	11.14	10.63
G11B	7.75	7.51	13.32	0.00	5.57	3.63	3.94	0.00	0.24	1.21	1.69	2.42	6.05	5.72
G11C	10.63	9.81	7.90	0.82	5.45	3.27	13.42	0.00	0.00	1.09	1.63	3.06	2.72	11.17
G11D	5.10	3.22	2.80	1.48	7.40	3.13	1.27	0.16	0.33	0.49	1.64	1.81	3.45	5.59
G12	6.60	10.32	5.21	0.87	5.56	2.43	3.20	0.35	0.17	0.87	0.87	1.91	1.39	8.69
G13	9.38	16.52	8.35	0.84	4.69	2.99	7.05	0.32	0.39	1.99	1.48	5.85	2.44	6.01
G14	3.26	12.09	6.05	0.47	4.65	3.72	6.99	0.93	0.00	0.00	3.26	1.40	0.00	2.33
G15B	7.09	22.72	4.81	0.40	5.89	2.40	7.93	0.12	0.84	1.20	2.76	3.07	1.68	6.77
G15C	8.80	6.02	13.43	0.00	5.09	4.63	6.17	0.00	0.46	0.93	0.46	2.32	0.00	7.41
G15D	7.10	5.15	9.24	0.18	2.84	4.09	6.18	0.00	0.53	0.89	2.13	2.49	0.18	5.33

AGI = ADJUSTED GROSS INCOME
NTI = NON-TAXABLE INCOME
TP = TAXES PAID
M = MODEL
HS = HOUSEHOLD SIZE
PHE = POST HIGH EDUCATION
NA = NET ASSETS
MS = MARITAL STATUS
VA = VETERAN'S BENEFITS
UT = UNREIMBURSED TUITION
AR = APPLICANT RESOURCES
UE = UNUSUAL EXPENSES
TFS = TAX FILING STATUS
PE = PORTION EARNED

*Less than one-half of one percent of sample population.

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

% OF VALIDATION APPLICANTS CORRECTING FIELD

CRITICAL FIELDS

GROUPS	ACI	NTI	TF	M	HS	PLE	MA	IS	VA	UT	AI	UF	[illegible]	EE
EDN. GROUPS														
G16A	8.25	11.11	9.60	0.48	3.81	3.33	3.09	0.00	0.79	0.40	2.38	1.90	0.63	5.56
G16B	11.17	12.34	9.06	0.70	6.95	3.75	3.35	0.16	1.17	0.35	1.01	2.34	1.09	8.05
G17	4.25	20.79	1.00	1.20	6.97	3.32	2.97	0.46	0.66	0.73	1.46	1.06	1.02	5.19
G18	10.53	10.60	13.81	0.24	7.02	5.60	4.62	0.36	1.67	1.07	1.06	4.05	1.41	7.62
G19B	12.91	15.11	15.30	0.00	6.69	5.54	4.90	0.10	1.72	0.57	2.10	4.21	0.10	5.27
G19C*	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G19I	7.33	23.62	0.86	0.00	5.60	6.03	3.79	0.43	1.29	0.43	0.86	2.16	0.86	6.03
G20	8.12	9.31	9.51	0.20	7.33	6.51	4.27	0.00	0.59	0.40	1.57	3.17	0.79	4.75
G21	6.19	15.59	13.82	0.29	5.59	5.00	5.38	0.00	2.06	0.59	3.27	4.12	0.29	3.82
G22	10.34	9.96	11.49	0.38	6.90	4.60	8.65	0.00	1.15	0.77	1.92	1.53	1.15	4.60
G23B	9.44	5.94	15.04	0.00	3.15	3.85	5.76	0.00	1.40	1.05	2.45	2.80	1.40	4.90
G23F	6.97	11.00	9.50	0.18	5.25	4.43	4.69	0.13	1.22	0.41	1.36	3.35	0.50	4.43
G23G	3.87	6.13	8.39	0.32	7.10	4.84	3.13	0.32	2.26	0.65	0.97	3.87	0.32	5.48
G23I	4.21	4.52	7.89	0.09	3.60	4.61	4.67	0.04	1.05	0.75	2.59	2.09	0.18	1.62
G23I	7.18	2.98	9.98	0.00	4.73	5.08	5.28	0.35	1.05	0.44	2.28	2.71	0.44	1.84
G23J	10.16	5.25	12.13	0.33	6.23	5.57	3.24	0.00	0.00	0.33	1.64	4.26	0.98	4.92
G24*	18.32	11.52	35.00	0.00	4.19	2.09	1.03	0.00	0.00	0.00	3.14	7.66	1.57	5.76
G25A*	7.41	3.70	14.81	0.00	3.70	7.41	12.90	0.00	0.00	3.70	0.00	3.70	0.00	0.00
G25B	3.33	1.25	10.83	0.00	4.58	6.67	6.69	0.00	2.09	0.42	2.92	4.58	0.00	1.67
G26B	8.53	9.17	7.96	1.13	4.67	1.20	3.65	1.37	1.05	0.48	0.08	2.09	0.48	7.99
G26C	8.44	17.44	4.27	2.18	3.70	0.65	2.23	0.09	0.66	0.38	0.19	1.80	3.51	11.47
G26C	8.81	16.57	5.72	1.28	5.05	2.41	2.33	2.03	0.53	0.60	0.15	1.81	4.59	9.34
G27	10.65	11.01	11.48	0.47	4.23	2.42	4.71	0.74	1.75	0.81	0.20	4.03	1.41	9.67
G28	15.99	12.36	8.09	3.62	5.30	2.04	4.07	0.56	0.56	0.46	1.11	2.79	5.30	15.24
G29	15.31	3.59	15.63	2.34	3.91	1.88	4.29	0.63	0.31	0.31	0.94	2.97	3.13	11.41

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	AGI	NTI	TI	[illegible]	IS	HLE	MA	MS	VA	UT	AI	UE	THC	TE
EPI GROUPS														
G30	11.20	9.90	8.55	2.49	5.70	2.26	2.31	0.59	0.59	0.24	0.71	2.73	3.06	11.28
G31	12.57	10.69	11.50	3.10	6.07	2.89	3.96	0.72	1.16	0.43	0.97	3.32	2.46	12.76
G32	7.95	17.44	5.43	0.60	4.75	1.94	1.96	1.16	0.97	0.20	0.90	1.55	1.26	7.07
G33	8.64	13.30	5.61	0.59	4.45	2.56	2.25	0.97	1.16	0.62	0.06	1.66	1.57	7.21
G34	15.76	9.03	13.03	1.20	2.94	1.05	6.91	0.63	2.10	0.06	0.63	1.69	2.94	11.13
G35	8.95	8.20	10.49	1.31	2.95	2.62	5.47	0.33	2.95	0.66	0.33	2.30	0.33	6.56
G36	21.62	4.39	30.07	1.01	3.04	2.70	7.93	0.34	1.01	0.68	0.68	3.04	3.38	13.18
G37	11.37	9.51	15.09	1.03	3.59	1.03	4.56	0.00	2.41	0.34	0.40	3.77	1.59	8.27
OTHER GROUPS TO TEST														
OTHER1A	12.17	6.40	15.87	0.18	4.94	5.27	5.97	0.14	0.89	1.00	2.31	6.26	2.55	6.40
OTHER1B	13.80	12.02	12.37	0.57	5.36	3.29	4.94	0.43	1.19	0.57	1.62	2.61	2.21	6.89
OTHER2A	13.04	8.70	15.94	1.45	7.25	2.90	10.39	5.80	2.90	10.14	0.00	5.80	1.45	10.14
OTHER2B	9.46	11.49	14.86	0.68	6.76	3.38	7.64	1.35	1.35	6.08	0.68	6.76	2.03	7.43
OTHER2C	14.55	15.67	13.43	1.12	9.70	4.10	3.73	1.12	1.12	9.33	1.87	3.36	2.24	9.33
OTHER2D	17.34	8.39	17.78	0.25	5.56	6.03	5.75	0.19	0.85	5.28	2.07	6.31	3.49	6.32
OTHER3A	30.94	10.87	31.39	0.95	6.81	4.58	5.30	0.44	0.87	0.98	1.88	5.68	9.89	21.65
OTHER3B	43.82	6.49	45.19	0.25	6.62	6.24	8.44	0.25	1.87	0.62	2.75	9.36	11.09	16.23
OTHER3C	7.60	13.12	8.14	8.98	5.10	3.27	3.86	0.49	0.92	0.68	1.15	2.75	1.35	6.69
OTHER3D	7.36	7.39	9.17	0.25	4.44	4.13	7.12	0.13	1.46	0.41	2.79	3.49	0.41	7.81
OTHER4A	10.79	5.65	17.29	0.26	2.40	3.00	5.67	0.26	1.28	0.86	0.20	4.54	1.63	7.11
OTHER4B	10.51	14.17	10.44	0.30	3.65	2.46	3.77	0.97	2.40	0.45	0.07	2.76	1.57	9.10

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	AGI	NTI	TP	M	HS	PHE	NA	MS	VA	UT	AR	UE	TFS	PE
PEC GROUPS														
A1	14.64	8.13	13.39	0.17	4.64	3.66	2.41	0.36	0.45	0.99	0.63	5.09	0.45	7.50
A2	41.79	10.37	40.63	1.44	6.05	6.63	2.59	2.88	5.76	1.15	2.31	10.37	9.80	10.60
A3	44.94	17.09	24.05	0.63	8.86	2.53	4.43	0.63	1.90	0.63	0.00	7.59	5.06	16.50
A4*	21.74	32.61	13.04	0.00	2.17	4.35	2.17	0.00	2.17	0.00	0.00	2.17	8.70	28.26
A5	9.20	19.85	4.55	3.20	10.20	3.93	2.37	0.91	0.18	1.20	0.18	4.01	4.18	10.20
A6	7.08	26.57	2.95	0.91	7.16	3.39	3.76	0.52	0.74	1.03	1.62	5.24	2.44	9.27
A7	23.38	10.07	54.10	0.17	7.00	5.55	2.56	0.34	0.34	1.78	1.02	6.40	0.51	11.60
A8	43.10	11.07	59.66	0.67	7.15	5.79	3.07	0.34	0.34	0.95	2.39	8.96	11.07	10.05
A9	20.54	11.39	57.67	0.99	5.20	2.97	2.48	0.25	0.74	0.00	0.25	4.70	1.49	15.59
A10	41.57	8.99	61.80	2.25	3.37	4.49	4.49	0.00	5.62	2.25	1.12	8.99	7.87	24.72
A11	16.67	15.59	16.03	0.00	2.56	2.56	1.28	6.41	0.00	2.56	1.28	43.59	4.49	12.18
A12	15.96	13.01	9.10	0.72	3.77	2.80	2.47	0.20	1.37	2.15	0.91	32.70	3.30	11.44
A13	13.02	12.53	9.34	0.49	5.41	4.18	3.44	2.46	0.74	32.68	0.74	7.62	1.47	7.37
A14	15.09	60.87	14.30	0.40	0.75	3.57	2.78	0.10	2.68	0.79	1.69	3.67	3.00	8.54
A15	17.22	57.55	17.31	0.42	5.75	4.15	1.90	0.00	2.20	1.04	2.93	4.53	3.44	9.10
A16	13.33	17.78	10.00	2.22	5.56	2.22	3.33	0.00	1.11	0.00	1.11	2.22	3.33	12.22
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
A18*	75.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	75.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AGI = ADJUSTED GROSS INCOME
NTI = NON-TAXABLE INCOME
TP = TAXES PAID
M = MODEL
HS = HOUSEHOLD SIZE
PHE = POST HIGH EDUCATION
NA = NET ASSETS
MS = MARITAL STATUS
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UT = UNREIMBURSED TUITION
AR = APPLICANT RESOURCES
UE = UNUSUAL EXPENSES
TFS = TAX FILING STATUS
PE = PORTION EARNED

*Less than one-half of one percent of sample population.

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	ACI	NTI	TF	N	HS	PNE	NA	MS	VA	UT	AP	UF	TFS	FL
PEC SPLITS														
A3III1*	38.71	25.81	22.58	0.00	9.68	0.00	3.23	3.23	3.23	0.00	0.00	9.68	6.45	9.68
A3III2	46.46	14.96	24.41	0.79	8.66	3.15	4.72	0.00	1.57	0.79	0.00	7.09	4.72	18.11
A5I1	8.92	13.38	5.10	0.64	3.82	2.55	0.00	0.00	0.64	0.64	0.00	4.46	3.82	10.19
A5I2	11.85	22.22	5.56	5.93	17.04	6.30	4.07	0.74	0.00	2.22	0.37	4.07	5.56	11.85
A5I3	4.10	22.95	1.64	0.82	3.28	0.00	1.64	2.46	0.00	0.00	0.00	3.28	1.64	6.56
A5II1*	10.53	15.79	5.26	1.75	8.77	1.75	5.26	0.00	0.00	3.51	0.00	0.00	1.75	7.02
A5II2	9.15	20.33	4.47	3.46	10.37	4.07	2.03	1.02	0.20	1.02	0.20	0.20	4.27	3.96
A5III1*	0.00	8.33	0.00	0.00	0.00	8.33	0.00	8.33	0.00	0.00	0.00	0.00	0.00	8.33
A5III2	9.50	20.11	4.66	3.35	10.43	3.72	2.42	0.74	0.19	1.30	0.19	4.10	4.28	10.24
A6I1	8.36	7.74	1.55	0.00	3.10	1.86	3.72	0.62	0.93	1.24	1.55	8.98	1.24	5.57
A6I2	6.69	32.46	3.39	1.07	8.43	3.88	3.78	0.48	0.68	0.97	1.65	4.07	2.91	9.11
A6II1	6.45	35.37	3.31	1.16	9.09	4.30	2.91	0.83	0.66	0.66	1.49	3.14	2.31	9.42
A6II2	7.61	19.49	2.67	0.53	5.61	2.67	4.54	0.27	0.80	1.34	1.74	6.94	2.54	8.14
A6III1	6.84	25.36	2.66	0.56	6.68	3.38	3.70	0.48	0.81	0.89	1.45	5.56	2.42	7.97
A6III2	9.73	39.82	6.19	3.54	12.39	3.54	4.42	0.88	0.00	2.65	3.54	1.77	2.65	11.50
A6IV1	6.20	12.40	1.55	0.00	5.43	0.78	3.10	0.00	1.55	1.55	2.33	8.53	0.78	5.43
A6IV2	7.18	20.00	3.10	0.90	7.34	3.67	3.83	0.57	0.65	0.98	1.55	4.89	2.61	8.56
A6V1*	12.68	22.54	2.82	2.82	11.27	9.86	1.41	1.41	2.82	0.00	2.82	7.04	4.23	8.45
A6V2	6.78	26.79	2.96	0.70	6.93	3.04	3.89	0.47	0.62	1.09	1.56	5.14	2.34	8.26
A7I1	21.33	16.90	55.40	0.28	8.86	3.88	2.22	0.00	0.55	1.11	0.83	4.71	0.55	9.14
A7I2	24.29	7.03	53.51	0.12	6.17	6.29	2.71	0.49	0.25	2.10	1.11	7.15	0.49	12.82
A7II1*[1]	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A7II2	23.38	10.07	54.10	0.17	7.00	5.55	2.56	0.34	0.34	1.79	1.02	6.40	0.51	11.69
A7III1	22.65	8.72	53.36	0.34	6.38	6.04	2.68	0.34	0.17	2.35	0.84	9.90	0.34	11.41
A7III2	24.13	11.46	54.86	0.00	7.64	5.03	2.43	0.35	0.52	1.22	1.22	2.78	0.69	11.98
A8I1	36.54	22.44	55.13	0.64	7.05	7.69	1.92	0.64	0.00	0.64	1.92	5.77	9.62	16.67
A8I2	45.58	6.74	60.00	0.70	7.21	5.12	3.49	0.23	0.47	0.93	2.56	10.00	11.63	21.16
A8II1*[1]	—	—	—	—	—	—	—	—	—	—	—	—	—	—

*[1] Compute edits won't allow.

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	AGI	NTI	TP	M	HS	PHE	NA	MS	VA	UT	AR	UE	TFS	PE
PEC SPLITS														
A8II2	43.10	11.07	58.60	0.68	7.16	5.79	3.07	0.34	0.34	0.85	2.39	8.86	11.07	19.93
A8III1	45.00	8.82	60.29	0.59	6.47	5.29	2.94	0.00	0.59	1.18	2.94	11.18	10.88	19.12
A8III2	40.49	14.17	56.28	0.81	8.10	6.48	3.24	0.81	0.00	0.40	1.62	5.67	11.34	21.05
A9I1	22.82	11.65	57.77	0.00	4.85	4.37	0.97	0.49	0.97	0.97	0.00	5.34	1.94	14.08
A9I2	18.95	11.11	60.13	2.61	5.23	1.31	4.58	0.00	0.65	0.65	0.65	3.92	0.65	18.30
A9I3*	15.56	11.11	48.89	0.00	6.67	2.22	2.22	0.00	0.00	2.22	0.00	4.44	2.22	13.33
A9II1*[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
A9II2	20.54	11.39	57.67	0.99	5.20	2.97	2.48	0.25	0.74	0.99	0.25	4.70	1.49	15.59
A9III1	22.22	13.89	62.50	2.78	6.94	2.78	4.17	0.00	0.00	1.39	0.00	6.94	0.00	18.06
A9III2	20.18	10.84	56.53	0.60	4.82	3.01	2.11	0.30	0.90	0.90	0.30	4.22	1.81	15.06
A10I1*	47.73	11.36	65.91	0.00	0.00	4.55	4.55	0.00	9.09	0.00	0.00	9.09	4.55	29.55
A10I2*	39.47	7.89	60.53	5.26	7.89	5.26	5.26	0.00	2.63	5.26	2.63	10.53	13.16	21.05
A10I3*	14.29	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.29
A10II1*[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
A10II2	41.57	8.99	61.80	2.25	3.37	4.49	4.49	0.00	5.62	2.25	1.12	8.99	7.87	24.72
A10III1*	52.63	26.32	73.68	0.00	5.26	10.53	5.26	0.00	15.79	5.26	0.00	15.79	10.53	31.58
A10III2	38.57	4.29	58.57	2.86	2.86	2.86	4.29	0.00	2.86	1.43	1.43	7.14	7.14	22.86
A12I1	20.78	14.55	13.77	0.26	3.64	4.16	3.90	0.52	1.56	2.86	1.56	27.79	3.12	12.21
A12I2	16.67	12.96	9.51	0.62	3.46	1.85	1.48	0.12	0.99	1.73	0.62	32.47	3.33	11.11
A12I3	7.53	34.64	2.71	0.90	4.52	3.61	3.01	0.00	2.11	2.41	0.90	38.55	3.31	10.54
A12II1	12.03	7.55	4.01	0.00	3.30	2.36	2.12	0.24	0.71	1.65	0.71	22.17	1.42	6.60
A12II2	17.33	21.99	11.04	0.99	3.95	2.96	2.60	0.18	1.62	2.33	0.99	36.71	4.13	13.29
A12III1	15.47	16.91	8.91	0.92	3.80	2.49	3.01	0.13	1.31	1.70	0.79	27.13	3.67	11.66
A12III2	16.02	19.14	9.24	0.52	3.78	3.13	1.95	0.26	1.43	2.60	1.04	38.15	3.13	11.07
A12IV1	16.27	18.44	9.11	1.19	3.90	2.93	2.82	0.33	1.08	2.39	0.54	36.55	3.58	13.12
A12IV2	14.43	16.91	7.84	0.00	3.71	2.68	0.82	0.00	1.24	1.03	1.24	24.95	2.47	8.45

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	ACI	LTI	TP	M	HS	PHE	NA	MS	VA	UT	AR	UE	TPS	FI
PEC SPLITS														
A12IV3	13.32	19.08	13.74	0.00	3.05	2.29	6.11	0.00	3.82	4.58	2.29	34.35	5.34	10.69
A13I1	14.29	12.29	9.97	0.33	5.98	4.98	3.99	0.00	1.00	31.23	1.00	6.98	1.66	5.98
A13I2*	6.98	18.60	9.30	2.33	6.98	4.65	4.65	2.33	0.00	39.53	0.00	13.95	0.00	9.30
A13I3*	11.11	9.52	6.35	0.00	1.59	0.00	0.00	0.00	0.00	34.92	0.00	6.35	1.59	12.70
A13II1	14.38	11.99	11.64	0.68	6.51	4.79	4.11	0.34	0.34	30.39	0.68	6.51	2.05	8.56
A13II2	9.57	13.91	3.48	0.00	2.61	2.61	1.74	0.00	1.74	23.48	0.87	10.43	0.00	4.35
A13III1	14.63	8.54	13.41	0.00	4.27	4.88	3.66	0.00	0.61	40.24	0.00	5.49	2.44	7.32
A13III2	11.93	15.23	6.58	0.82	6.17	3.70	3.29	0.41	0.82	27.57	1.23	9.05	0.82	7.41
A14I1	13.59	60.98	14.46	0.17	6.45	3.48	2.79	0.00	3.14	0.52	0.87	4.01	2.79	9.01
A14I2	16.71	64.27	14.70	0.29	8.36	4.32	4.32	0.29	1.15	1.15	3.17	3.75	3.17	9.80
A14II1	14.77	60.95	14.05	0.31	6.82	3.31	3.00	0.00	2.69	0.72	1.55	3.62	2.39	8.47
A14II2	13.33	33.33	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33
A14II3*2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A15I1	15.71	56.76	18.50	0.17	5.41	4.05	2.20	0.08	3.21	1.35	2.45	4.48	3.29	7.77
A15I2	19.52	59.29	16.19	0.60	6.67	4.76	2.98	0.12	0.71	0.00	3.57	4.64	3.93	10.24
A15II1	17.54	57.43	17.54	0.44	5.75	4.24	2.58	0.05	2.29	1.02	2.93	4.58	3.51	9.25
A15II2*	4.76	42.86	4.76	0.00	9.52	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76
A15II3*2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FI1	10.19	17.55	4.15	3.77	6.42	1.70	2.64	0.57	0.00	0.75	0.94	4.15	3.77	11.70
FI2*	9.30	11.63	4.65	2.33	4.65	0.00	2.33	6.98	0.00	0.00	0.00	4.65	4.65	9.30
FII1	9.17	21.10	4.59	1.83	5.05	0.09	1.38	1.37	0.00	0.09	0.00	2.29	3.67	10.55
FII2	10.50	15.19	4.14	4.70	7.18	1.93	3.31	0.08	0.00	0.06	1.38	5.52	3.87	11.88
FIII1	11.35	18.78	4.80	4.37	8.30	1.31	3.49	1.31	0.00	0.44	0.44	4.37	4.80	12.66
FIII2	9.12	16.52	3.99	3.13	5.13	1.71	1.99	0.85	0.00	0.85	1.14	4.27	3.13	10.54

*2 No members.

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

% OF VALIDATION APPLICANTS CORRECTING FIELD

CRITICAL FIELDS

GROUPS	AGI	NTI	TP	H	NS	FHE	HA	MS	VA	UT	AP	UF	THS	RE
EPN GROUPS														
G1	27.33	32.67	23.67	0.33	8.33	2.67	1.65	0.33	2.33	0.67	0.67	0.67	9.67	19.33
G2	52.23	11.47	45.22	0.00	10.83	5.73	3.70	0.00	0.64	1.91	0.00	9.55	7.64	31.21
G3	36.91	22.65	29.56	0.29	6.62	5.88	4.93	0.29	1.19	3.09	2.50	11.91	9.26	19.24
G4	44.47	46.36	39.59	0.00	8.09	6.47	5.28	0.00	4.04	2.96	4.31	7.42	12.40	16.71
G5	37.16	31.76	41.89	0.68	5.41	5.41	9.15	0.00	2.70	2.70	2.03	7.43	11.49	12.51
G6	37.23	18.98	35.77	0.36	4.74	3.65	4.32	0.00	0.00	0.73	2.19	3.65	11.31	14.23
G7	50.83	5.00	56.67	0.00	5.83	10.00	1.65	0.00	0.00	2.50	3.33	6.67	10.00	9.17
G8	45.98	2.30	51.72	1.15	5.75	5.75	6.52	0.00	0.00	1.15	3.45	11.49	12.64	17.24
G9	43.93	9.35	48.60	0.00	5.61	8.41	9.65	0.00	1.87	2.80	4.67	3.74	10.28	14.95
G10	47.67	15.70	61.05	0.00	6.40	8.72	9.78	0.00	0.58	0.00	4.07	10.47	15.12	22.67
G11B	12.34	27.27	25.32	0.65	2.60	4.55	2.58	0.00	0.65	1.30	2.60	4.55	1.30	9.74
G11C	7.32	26.02	3.25	3.25	11.38	6.50	0.81	0.00	0.81	0.00	1.63	0.81	4.07	6.50
G11D	5.84	45.91	2.72	0.39	8.95	5.06	2.70	0.78	2.72	1.17	2.33	6.61	1.95	6.61
G12	6.81	23.56	6.28	1.57	4.71	3.66	3.09	0.52	0.52	2.09	1.05	2.09	1.57	6.81
G13	7.86	25.86	10.15	0.49	5.73	3.93	6.81	0.16	1.64	2.62	0.98	7.37	1.15	9.33
G14	10.09	35.78	16.51	0.00	1.83	2.75	1.83	0.00	3.67	3.67	2.75	4.59	0.00	1.83
G15B	7.18	39.58	5.79	0.46	5.79	1.62	6.38	0.23	3.70	1.85	0.46	6.94	2.55	6.25
G15C	23.60	30.34	39.33	0.00	6.74	5.62	3.30	0.00	0.00	2.25	0.00	6.74	0.00	14.61
G15D	10.50	17.00	21.50	0.00	5.50	3.50	4.41	0.00	1.00	1.00	1.50	4.00	1.00	6.50
G16A	10.84	21.24	11.28	0.22	5.53	3.32	3.32	0.00	2.21	0.44	1.55	5.31	0.44	5.53
G16B	13.95	22.38	13.84	0.22	6.19	2.92	3.91	o.11	1.12	1.91	0.67	7.42	1.01	9.90
G17	7.60	38.37	3.24	0.65	5.47	3.43	3.39	0.28	2.41	2.13	1.02	8.62	2.32	6.67
G18	12.84	21.33	27.75	0.00	7.34	8.72	2.51	0.46	1.61	3.90	1.61	8.26	0.92	6.88
G19B	12.36	32.69	10.16	0.00	3.57	4.12	5.11	0.55	1.92	1.37	1.10	7.69	0.27	7.42
G19C*	16.67	50.00	0.00	0.00	0.00	0.00	16.67	0.00	0.00	0.00	16.67	16.67	16.67	16.67
G19D	11.16	53.31	1.65	0.41	5.79	2.48	4.03	0.41	2.89	0.83	2.48	4.55	0.83	4.96

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	AGI	NTI	TP	I	HS	PHE	MA	MS	VA	UT	AD	UF	TFC	FI
EPI GROUPS														
G20	7.17	33.22	11.73	0.00	5.86	4.23	3.35	0.00	2.93	1.95	0.65	4.56	0.33	5.21
G21	8.02	33.96	12.26	0.00	3.77	2.83	5.99	0.00	3.77	0.47	2.83	2.83	0.47	2.83
G22	8.61	31.13	9.27	0.00	2.65	2.65	3.85	0.00	5.30	0.66	1.99	3.97	0.00	2.65
G23L	11.24	13.48	17.98	0.00	2.25	1.12	5.43	0.00	1.12	0.00	0.00	7.87	0.00	8.99
G23B	9.62	29.38	14.90	0.26	6.50	3.73	3.07	0.26	3.73	1.39	2.95	4.94	1.04	4.85
G23C	6.48	30.56	14.81	0.00	8.33	4.63	3.57	0.00	1.85	0.93	1.85	1.85	0.93	9.26
G23H	4.88	21.03	10.45	0.14	4.88	4.75	3.84	0.27	2.31	0.54	2.31	3.39	0.41	2.58
G23I	9.29	6.17	16.98	0.00	3.09	3.40	3.31	0.00	0.00	1.99	0.93	2.16	0.31	3.40
G23J	9.71	6.80	17.48	0.00	3.88	8.74	4.59	0.97	1.94	0.00	2.91	4.85	0.97	5.83
G24	21.38	14.13	47.46	0.36	6.88	4.71	3.60	0.00	1.09	1.09	1.81	5.80	0.36	11.59
G25A*	26.67	0.00	60.00	0.00	13.33	6.67	0.00	0.00	0.00	0.00	0.00	6.67	0.00	6.67
G25L	13.10	1.12	43.82	0.00	6.74	6.74	3.33	1.12	0.00	0.00	1.12	4.49	1.12	5.62
G26L	18.90	13.40	23.37	1.37	5.50	1.72	3.07	0.00	0.34	2.06	0.00	10.31	0.69	14.78
G26C	7.17	20.75	4.15	3.02	5.28	0.38	5.19	1.51	0.00	1.13	0.38	2.64	3.40	7.92
G26D	12.94	24.71	13.73	3.92	10.20	4.71	3.84	0.78	0.39	4.31	0.00	5.10	5.88	16.47
G27	14.18	17.54	20.90	0.37	3.73	1.87	2.17	0.37	2.24	1.49	0.37	4.10	0.75	10.07
G28	15.59	19.39	6.08	4.56	6.84	3.42	5.20	0.38	2.28	1.52	1.52	9.13	5.70	15.21
G29*	23.81	9.52	35.71	2.38	4.76	2.38	2.38	2.38	0.00	4.76	0.00	11.90	7.14	10.67
G30	14.52	21.10	10.68	3.01	4.66	2.47	4.04	0.82	3.01	1.37	0.82	10.14	3.56	13.42
G31	17.86	13.27	15.82	2.04	5.10	2.04	3.98	0.00	2.04	0.51	0.51	10.71	2.04	10.71
G32	13.71	18.29	14.57	1.43	7.43	2.57	2.84	0.86	2.57	2.29	0.29	7.71	3.14	10.86
G33	13.13	16.36	10.83	0.92	5.53	1.38	2.06	0.69	3.46	2.30	0.00	11.06	2.53	11.52
G34	24.77	31.19	19.27	2.75	2.75	2.75	7.96	0.00	5.50	0.92	1.83	10.09	3.67	15.60
G35	19.05	33.33	19.05	0.00	0.00	0.00	8.70	0.00	0.00	0.00	0.00	0.00	4.76	9.52
G36	11.90	2.38	35.71	0.00	0.00	2.38	2.33	0.00	2.38	2.38	0.00	2.38	2.38	4.76
G37	14.49	15.91	29.22	0.71	3.09	1.43	6.01	0.24	4.04	0.48	0.24	6.65	2.61	10.69

TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS

GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	AGI	NTI	TP	H	HS	PHL	MA	MS	VA	UT	AB	UE	DES	RF
OTHER GROUPS TO TEST														
OTHER2A*	0.00	0.00	0.00	0.00	0.00	12.50	12.50	0.00	0.00	37.50	0.00	0.00	0.00	0.00
OTHER2B*	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.29	0.00	17.65	0.00	11.76
OTHER2C*	15.87	15.87	15.87	1.59	3.17	1.59	1.59	1.59	1.59	36.51	0.00	9.52	3.17	11.11
OTHER2D	13.25	12.62	8.83	0.32	6.31	4.73	3.79	0.00	0.63	31.86	0.95	0.94	1.26	6.62
OTHER3A	37.99	23.10	35.62	0.71	6.72	5.14	2.97	0.26	1.88	2.03	2.06	8.03	10.32	19.22
OTHER3B	44.85	24.63	44.49	0.00	6.25	7.72	4.78	0.00	2.57	2.57	4.04	8.09	11.40	15.81
OTHER3C	10.37	25.44	13.22	0.73	5.52	3.49	2.29	0.31	2.09	1.66	1.20	0.36	1.35	7.52
OTHER3D	9.00	24.84	16.00	0.22	6.13	3.39	2.74	0.22	3.06	0.98	2.63	4.10	0.77	4.70

GUIDE TO READING TABLE 6.3

Table 6.3 consists of two tables: Random Sample and Pre-established Criteria (PEC). These tables indicate whether the criteria which showed large numbers correcting in Table 3.10 identify students reporting to their advantage or to their disadvantage. Across the top of the table are the critical fields, Non Taxable Income (NTI), Adjusted Gross Income (AGI), Taxes Paid (Taxes), Household Size (HS), and Post High Education (PHE). Each field column has two parts: "Too High" and "Too Low". "Too High" indicates those applicants who overreported that particular field. "Too Low" indicates those applicants who underreported that field. Applicants overreporting Non Taxable Income, (NTI) and Adjusted Gross Income (AGI) report to their disadvantage. Applicants underreporting Taxes, Household Size (HS), and Post High Education (PHE) also report to their disadvantage. Conversely underreporting NTI, and AGI, and overreporting Taxes, HS and PHE is to the applicants' advantage. The column on the far left side of the table lists the criterion group name.

To demonstrate the method of reading these tables, look down the far left column marked "Groups" to "G2". Read left to right, and find that 3.07% applicants reported NTI to high, while 10.06% reported NTI too low (or, to their advantage). AGI was overreported to their disadvantage by 10.34% applicants and underreported by 28.77% to their advantage. Taxes were overreported to the advantage of the applicant by 15.36% of the applicants, and so on. "Too High" and "Too Low" will not add up to 100% because those applicants who did not change their data at these fields are not included on this table.

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

	NTI[1]		AGI[2]		Taxes[3]		HS[4]		PHE[5]	
GROUPS	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
EPI GROUPS										
G1	4.99	14.57	5.99	18.76	11.78	9.18	4.19	2.79	2.79	1.20
G2	3.07	10.06	10.34	28.77	15.36	17.60	7.26	2.79	4.75	1.65
G3	2.87	7.94	13.67	27.01	14.99	13.67	4.52	3.31	3.75	2.21
G4	3.59	7.83	17.61	32.28	20.22	25.76	3.04	5.00	2.07	3.04
G5*	5.93	8.15	8.15	20.00	11.85	18.52	2.22	5.19	2.96	2.22
G6	1.47	5.39	11.76	17.65	13.73	14.71	2.45	7.84	1.47	3.43
G7	1.12	2.24	9.33	38.06	25.75	25.00	2.24	2.24	4.10	3.73
G8*	0.52	2.59	8.76	34.54	20.80	19.50	2.06	2.59	4.12	2.59
G9	1.37	1.83	13.50	30.43	23.11	24.94	1.60	39.90	3.89	3.43
G10	0.53	2.12	9.28	35.01	28.91	10.19	29.18	5.57	2.12	4.77
G11B	2.91	4.60	2.18	5.57	9.69	3.63	3.39	2.18	2.91	0.73
G11C	0.00	9.81	2.18	8.45	1.63	6.27	3.81	1.63	2.72	0.54
G11D	11.84	20.39	0.99	4.11	0.82	1.97	5.26	2.14	1.97	1.15
G12	6.77	9.54	2.43	4.17	2.78	2.43	2.78	2.78	1.39	1.04
G13	6.30	10.22	2.83	6.56	2.89	5.46	2.63	2.00	2.19	0.71
G14	0.00	12.09	0.47	2.79	2.79	3.26	3.25	1.40	3.26	0.47
G15B	7.69	15.02	18.03	5.29	0.72	4.09	3.37	2.52	1.44	0.96
G15C	1.39	4.63	1.39	7.41	10.65	2.78	2.31	2.78	3.24	1.39
G15D	1.95	3.20	1.78	5.33	6.39	2.84	0.89	1.95	1.95	2.13
G16A	0.63	10.48	2.54	5.71	4.60	5.08	1.11	2.70	1.59	1.75
G16B	1.25	11.09	3.28	7.89	5.86	3.20	3.98	2.97	2.58	1.17
G17	8.43	21.37	0.40	3.85	0.13	0.86	4.51	2.46	2.12	1.19
G18	2.62	7.98	2.62	8.21	8.69	5.12	4.88	2.14	3.33	2.26
G19B	2.87	12.24	6.31	6.50	0.00	15.30	1.72	4.97	1.53	4.02

Footnotes:

[1] NTI - Non Taxable Income

[2] AGI - Adjusted Gross Income

[3] Taxes

[4] HS - Household Size

[5] PHE - Post High Education

*Less than one-half of one percent of sample population.

RANDOM SAMPLE

2

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		MS[4]		NDE[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
EMP. GROUPS										
G19C*	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G19B	13.36	20.26	4.31	3.02	0.00	0.86	2.59	3.02	3.45	2.59
G20	0.99	8.32	2.57	5.54	3.56	5.94	2.18	5.15	4.75	3.76
G21	5.29	10.29	3.24	2.94	4.12	9.71	1.47	4.12	1.47	4.41
G22	3.07	6.90	6.90	3.45	4.98	6.51	1.92	4.98	2.30	2.30
G23B	2.45	3.50	2.45	6.99	10.14	4.90	0.70	2.45	1.75	2.10
G23F	3.94	7.00	1.63	5.34	6.92	2.58	1.86	3.39	1.86	2.58
G23G	1.29	4.84	2.26	1.61	6.77	1.61	2.90	4.19	3.87	0.97
G23H	1.23	3.29	2.32	1.89	5.39	2.50	1.10	2.50	2.19	2.41
G23I	0.88	2.10	2.01	5.17	6.74	3.24	2.28	2.45	2.45	2.63
G23J	1.97	3.28	2.95	7.21	6.89	5.25	3.28	2.95	5.25	0.33
G24*	5.24	6.28	4.71	13.61	32.98	2.09	1.05	3.14	1.57	0.52
G25A*	0.00	3.70	7.41	0.00	14.81	0.00	0.00	3.70	7.41	0.00
G25B	0.83	0.42	0.42	2.92	10.83	0.00	1.67	2.92	5.00	1.67
G26B	1.93	7.24	1.93	6.60	4.51	3.46	2.65	2.01	0.88	0.40
G26C	5.88	11.56	1.52	6.92	1.80	2.46	0.00	3.70	0.00	0.66
G26D	5.95	10.62	1.58	7.23	2.33	3.39	3.39	1.66	1.81	0.60
G27	5.24	5.78	3.56	7.12	6.11	5.37	1.41	2.82	1.07	1.34
G28	2.04	10.32	2.04	13.94	3.62	4.46	0.19	5.11	0.19	1.96
G29	0.47	3.13	2.19	13.13	9.69	5.94	1.09	2.81	1.09	0.78
G30	2.38	7.60	2.14	9.14	4.39	4.16	2.14	3.56	0.48	1.78
G31	2.40	8.24	1.01	11.56	6.79	4.77	1.45	4.62	1.01	1.88
G32	4.84	12.60	1.84	6.10	4.17	1.26	2.71	2.03	1.65	0.19
G33	3.56	9.80	2.23	6.41	2.94	2.67	3.74	0.71	2.14	0.45
G34	4.20	4.83	3.99	11.76	6.09	6.93	0.00	2.94	0.42	0.63
G35	2.62	5.57	4.26	4.59	6.89	3.61	0.00	2.95	0.98	1.64
G36	2.03	2.36	6.76	14.86	25.68	4.39	1.35	1.69	2.03	0.68
G37	4.00	5.51	4.07	7.31	9.17	5.93	1.52	2.07	0.96	0.96

RANDOM SAMPLE 3

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1] Too High	NTI[1] Too Low	AGI[2] Too High	AGI[2] Too Low	Taxes[3] Too High	Taxes[3] Too Low	MS[4] Too High	MS[4] Too Low	PIE[5] Too High	PIE[5] Too Low
OTHER GROUPS TO TEST										
OTHER1A	1.78	4.62	4.94	7.22	8.96	6.90	2.17	2.77	3.20	2.06
OTHER1B	2.99	9.03	7.22	6.58	7.39	4.99	2.53	2.83	1.70	1.59
OTHER2A	1.45	7.25	1.45	11.59	7.25	8.70	4.35	2.90	2.90	0.00
OTHER2B	5.41	6.08	1.35	8.11	9.46	5.41	4.05	2.70	0.68	2.70
OTHER2C	5.97	9.70	4.85	9.70	8.96	4.48	1.12	0.59	3.36	0.75
OTHER2D	2.73	6.16	4.62	12.72	9.05	8.73	3.20	2.36	3.11	2.02
OTHER3A	3.10	7.77	10.13	26.81	16.02	15.37	3.14	3.67	2.55	2.03
OTHER3B	2.37	4.12	13.48	30.34	23.60	21.60	1.75	4.87	2.87	3.37
OTHER3C	3.84	9.29	2.02	5.59	4.66	3.47	2.47	2.63	1.99	1.39
OTHER3D	3.14	4.25	3.11	4.25	5.30	3.81	1.08	3.36	1.59	2.54
OTHER4A	2.23	3.42	3.60	7.19	13.53	3.77	1.46	0.94	1.63	1.37
OTHER4B	6.04	8.13	4.10	6.41	4.10	6.34	1.27	2.39	1.49	0.97

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

	NTI[1]		AGI[2]		Taxes[3]		HS[4]		PHE[5]	
GROUPS	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
PEC GROUPS										
A1	2.05	6.07	1.16	13.48	8.21	5.18	2.32	2.32	2.50	1.16
A2	1.15	9.22	7.20	34.50	23.63	17.00	3.17	2.88	4.03	2.59
A3	5.06	12.03	0.63	44.30	13.92	10.13	6.33	2.53	1.90	0.63
A4*	10.87	21.74	0.00	21.74	0.00	13.04	0.00	2.17	2.17	2.17
A5	2.19	17.67	0.55	8.74	2.00	2.55	8.01	2.19	3.64	0.18
A6	1.85	24.72	1.70	5.39	1.40	1.55	5.09	2.07	2.66	0.74
A7	2.22	7.85	2.73	20.65	50.94	3.16	3.10	3.84	4.10	1.45
A8	2.21	8.86	8.96	34.24	50.60	8.01	4.20	2.90	3.92	1.97
A9	3.96	7.43	5.20	15.35	54.70	2.97	2.48	2.72	1.73	1.24
A10	4.49	4.49	6.74	34.83	53.93	7.87	1.12	2.25	3.37	1.12
A11	1.28	17.31	3.21	13.46	9.62	6.41	0.00	2.56	0.64	1.92
A12	3.45	14.56	4.55	11.31	5.46	3.64	1.76	2.02	1.82	0.99
A13	2.21	10.32	4.18	8.85	3.93	5.41	3.44	1.97	2.46	1.72
A14	7.35	53.52	5.16	9.93	9.04	5.26	3.18	3.57	2.48	1.09
A15	12.31	45.24	5.14	12.08	10.52	6.79	2.45	3.30	2.92	1.23
A16	4.44	13.33	5.56	7.78	5.56	4.44	2.22	3.33	1.11	1.11
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18*	0.00	0.00	0.50	0.25	0.00	0.25	0.00	0.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	10.88	37.55	3.40	8.44	6.94	5.17	2.90	2.99	3.40	1.63

FOOTNOTES:

[1] NTI - Non Taxable Income - is too high by $1.00 or too low by $1.00.

[2] AGI - Adjusted Gross Income - is too high by $1.00 or too low by $1.00.

[3] TAXES - is too high by $1.00 or too low by $1.00.

[4] HS - Household Size - is too high by 1 or too low by 1.

[5] PHE - Post High Education - is too high by 1 or too low by 1.

*Less than one-half of one percent of sample population.

PEC SAMPLE 2

TABLE 5.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		ES[4]		PIE[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
PEC GROUPS										
A21	11.76	34.96	2.86	8.24	7.39	4.71	1.95	3.87	1.85	1.69
B	3.42	10.56	3.87	11.33	8.54	6.93	2.20	2.83	2.07	1.80
C	3.69	7.87	3.50	8.65	7.39	5.73	2.04	2.82	1.94	2.04
D	3.20	10.10	4.33	9.50	9.03	5.64	1.89	2.16	2.92	1.69
E	4.44	13.42	3.33	11.71	9.99	6.16	3.83	2.22	2.32	1.21
F	0.52	10.90	0.69	9.31	1.03	3.28	0.86	5.52	0.17	1.37
G*	11.11	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00
PEC SPLITS										
A1I1	3.81	8.57	1.90	15.24	5.71	5.71	1.90	0.95	0.95	0.95
A1I2	1.17	3.51	1.17	23.39	7.02	9.94	2.92	1.75	2.34	0.00
A1I3	2.01	6.28	1.07	11.20	8.77	4.15	2.25	2.61	2.73	1.42
A2I1*	11.76	11.76	17.65	25.53	29.41	0.00	17.65	0.00	11.76	0.00
A2I2*	0.00	8.70	4.35	39.13	17.39	[illegible]	0.00	0.00	0.00	0.00
A2I3	0.65	9.12	6.84	34.84	23.78	17.59	2.61	3.26	3.91	2.93
A2II1	1.10	9.56	5.88	30.15	22.43	13.24	4.04	2.94	4.04	2.94
A2II2	1.33	8.00	12.00	50.67	28.00	30.67	0.00	2.67	4.00	1.33
A3I1	6.67	12.50	0.08	42.50	15.00	8.33	6.67	2.50	16.67	0.00
A3I2*	0.00	12.50	0.00	50.00	9.38	18.75	6.25	0.00	3.13	3.13
A3I3*	0.00	0.00	0.00	50.00	16.67	0.00	0.00	16.67	0.00	0.00
A3II1*	4.17	0.00	0.00	41.67	4.17	0.00	8.33	0.00	0.00	0.00
A3II2*	4.44	8.89	0.00	44.44	15.56	11.11	4.44	2.22	4.44	0.00
A3II3	5.62	16.85	1.12	44.94	15.73	12.36	6.74	3.37	1.12	1.12
A3III1*	6.45	19.35	0.00	38.71	12.90	9.68	9.67	0.00	0.00	0.00
A3III2	4.72	10.24	0.79	45.67	14.17	10.24	5.51	3.15	2.36	0.79

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		MS[4]		PIE[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
PEC SPLITS										
A5I1	0.64	12.74	0.00	8.92	3.18	1.91	1.91	1.91	2.55	0.00
A5I2	2.96	19.26	1.11	10.74	2.22	3.33	14.07	2.96	5.93	0.37
A5I3	2.46	20.49	0.00	4.10	0.00	1.64	2.46	0.82	0.00	0.00
A5II1*	3.51	12.28	0.00	10.53	1.75	3.51	7.02	1.75	1.75	0.00
A5II2	2.03	18.29	0.61	8.54	2.03	2.44	8.13	2.24	3.96	0.20
A5III1*	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
A5III2	2.23	17.88	0.56	8.94	2.05	2.61	8.19	2.23	3.54	0.19
A6I1	1.24	6.50	3.72	4.64	0.62	0.93	2.17	0.93	1.55	0.31
A6I2	2.03	30.43	1.07	5.62	1.65	1.74	6.01	2.42	3.00	0.97
A6II1	1.65	33.72	0.93	5.62	1.32	1.98	6.78	2.31	3.64	0.66
A6II2	2.00	17.49	2.40	5.21	1.47	1.20	3.74	1.87	1.87	0.80
A6III1	1.85	23.51	1.77	5.07	1.29	1.37	4.59	2.09	2.58	0.31
A6III2	1.77	38.05	0.88	8.85	2.65	3.54	10.62	1.77	3.54	0.00
A6IV1	0.00	12.40	3.10	3.10	1.55	0.00	1.55	3.88	0.78	0.00
A6IV2	2.04	26.02	1.55	5.63	1.39	1.71	5.46	1.88	2.55	0.82
A6V1*	2.82	19.71	5.63	7.04	0.00	2.82	7.04	4.23	9.86	0.00
A6V2	1.79	25.00	1.48	5.30	1.48	1.48	4.98	1.95	2.20	0.78
A7I1	4.43	12.47	2.22	19.11	51.80	3.60	4.71	4.16	3.05	0.83
A7I2	1.23	5.80	2.96	21.33	50.55	2.96	2.47	3.79	4.56	1.73
A7II1*[1]	--	--	--	--	--	--	--	--	--	--
A7II2	2.22	7.85	2.73	20.65	50.94	3.16	3.16	3.84	4.10	1.45
A7III1	1.85	6.88	2.68	19.97	50.84	2.52	3.52	2.85	4.70	1.34
A7III2	2.60	8.85	2.78	21.35	51.04	3.82	2.78	4.86	3.47	1.56
A8I1	5.13	17.31	7.05	29.49	49.36	5.77	5.13	1.92	5.77	1.92
A8I2	1.16	5.58	9.53	36.05	51.16	8.84	3.95	3.26	3.26	1.86
A8II1*[1]	--	--	--	--	--	--	--	--	--	--

*[1]Compute edits won't allow.

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		MS[4]		PEF[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
PEC SPLITS										
A8II2	2.21	8.86	8.86	34.24	50.60	8.01	4.26	2.90	3.92	1.87
A8III1	2.06	6.76	8.24	30.76	51.18	9.12	3.53	2.94	3.53	1.76
A8III2	2.43	11.74	9.72	30.80	49.80	6.48	5.26	2.83	4.45	2.02
A9I1	3.88	7.77	5.34	17.47	53.88	3.88	2.91	1.94	2.91	1.46
A9I2	3.92	7.19	3.92	15.03	57.52	2.61	1.96	3.27	0.00	1.31
A9I3*	4.44	6.67	8.89	6.67	48.89	0.00	2.22	4.44	2.22	0.00
A9II1*[1]	--	--	--	--	--	--	--	--	--	--
A9II2	3.96	7.43	5.20	15.35	54.70	2.97	2.48	2.72	1.73	1.24
A9III1	4.17	9.72	8.33	13.89	58.33	4.17	1.39	5.56	1.39	1.39
A9III2	3.92	6.93	4.52	15.66	53.92	2.71	2.71	2.11	1.81	1.20
A10I1*	6.82	4.55	9.09	38.64	59.09	6.82	0.00	0.00	4.55	0.00
A10I2*	2.63	5.26	5.26	34.21	50.00	10.53	2.63	5.26	2.63	2.63
A10I3*	0.00	0.00	0.00	14.29	42.86	0.00	0.00	0.00	0.00	0.00
A10II1*[1]	--	--	--	--	--	--	--	--	--	--
A10II2	4.49	4.49	6.74	34.83	53.93	7.87	1.12	2.25	3.37	1.12
A10III1*	15.79	10.53	5.26	47.37	63.16	10.53	5.26	0.00	10.53	0.00
A10III2	1.43	2.86	7.14	31.43	51.43	7.14	0.00	2.86	1.43	1.43
A12I1	2.08	12.47	5.19	15.58	8.83	4.94	1.82	1.82	2.34	1.82
A12I2	2.59	10.37	5.80	10.87	6.05	3.46	1.23	2.22	1.36	0.49
A12I3	7.23	27.41	0.90	6.63	0.30	2.41	3.01	1.51	2.41	1.20
A12II1	2.12	5.42	5.66	6.37	1.65	2.36	0.71	2.59	1.42	0.94
A12II2	3.95	18.04	4.13	13.20	6.91	4.13	2.15	1.80	1.97	0.99
A12III1	2.88	14.02	4.33	11.14	5.11	3.80	1.57	2.23	1.70	0.08
A12III2	3.91	15.23	4.82	11.20	5.86	3.39	1.95	1.82	1.95	1.17
A12IV1	2.49	15.94	4.45	11.82	5.75	3.36	1.95	1.95	1.84	1.08
A12IV2	4.74	12.16	4.54	9.90	4.74	3.09	1.65	2.06	1.86	0.83
A12IV3	5.34	13.74	5.34	12.98	6.11	7.63	0.76	2.29	1.53	0.76

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		NE[4]		PNF[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
PEC SPLITS										
A13I1	1.99	10.30	4.98	9.30	3.65	6.31	3.99	1.99	2.99	1.99
A13I2*	6.98	11.63	2.33	4.65	6.98	2.33	2.33	4.65	2.33	2.33
A13I3*	0.00	9.52	1.59	9.52	3.17	3.17	1.59	0.00	0.00	0.00
A13II1	2.05	9.93	3.77	10.62	4.45	7.19	4.11	2.40	2.74	2.05
A13II2	2.61	11.30	5.22	4.35	2.61	0.87	1.74	0.87	1.74	0.87
A13III1	0.61	7.93	4.88	9.76	4.27	9.15	2.44	1.83	3.05	1.83
A13III2	3.29	11.93	3.70	8.23	3.70	2.88	4.12	2.06	2.06	1.65
A14I1	9.06	51.92	4.36	9.23	8.71	5.75	3.31	3.14	2.61	0.87
A14I2	5.47	59.79	5.76	10.95	9.80	4.90	3.75	4.61	2.88	1.44
A14II1	7.23	53.72	5.27	9.50	8.78	5.27	3.20	3.62	2.48	0.83
A14II2	6.67	26.67	0.00	13.33	0.00	0.00	0.00	0.00	6.67	0.00
A14II3*2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A15I1	12.42	44.34	4.90	10.81	11.23	7.26	1.77	3.63	2.78	1.27
A15I2	12.62	40.67	5.48	14.05	9.52	6.67	3.69	2.98	3.45	1.31
A15II1	12.32	45.10	5.31	12.23	10.62	6.92	2.48	3.26	2.97	1.27
A15II2*	14.29	28.57	0.00	4.76	4.76	0.00	0.00	9.52	4.76	0.00
A15II3*2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FI1	0.38	17.17	0.75	9.43	0.94	3.21	0.94	5.47	0.19	1.51
FI2*	0.00	11.63	0.00	9.30	0.00	4.65	0.00	4.65	0.00	0.00
FII1	0.92	20.18	0.46	8.72	1.38	3.21	0.92	4.13	0.46	0.46
FII2	0.28	14.92	0.83	9.67	0.83	3.31	0.83	6.35	0.00	1.93
FIII1	0.87	17.90	0.44	10.92	0.87	3.93	1.31	6.99	0.00	1.31
FIII2	0.28	10.24	0.85	8.20	1.14	2.85	0.57	4.56	0.28	1.42

*2No members.

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	MTI[1] Too High	MTI[1] Too Low	AGI[2] Too High	AGI[2] Too Low	Taxes[3] Too High	Taxes[3] Too Low	HS[4] Too High	HS[4] Too Low	PHI[5] Too High	PHI[5] Too Low
EPI GROUPS										
G1	5.67	27.00	6.00	21.33	17.67	6.00	4.33	4.00	2.00	0.67
G2	1.27	10.19	12.74	30.49	26.11	10.11	5.10	5.73	3.82	1.91
G3	3.38	19.26	12.21	24.71	19.71	9.86	4.12	2.50	4.26	1.62
G4	15.21	33.15	12.67	31.81	21.02	18.87	2.43	5.66	3.23	3.23
G5	6.76	25.00	12.16	25.00	25.00	16.89	2.70	2.70	3.38	2.03
G6	6.93	12.04	12.04	25.18	15.69	20.07	1.46	3.28	1.46	2.19
G7	0.83	4.17	12.50	38.33	43.33	13.33	1.67	4.17	7.50	2.50
G8	0.00	2.30	9.20	36.78	28.74	22.99	2.30	3.44	4.60	1.15
G9	1.87	7.48	8.41	35.51	30.84	17.76	0.93	4.67	4.67	3.74
G10	4.65	11.05	7.56	40.12	43.60	17.44	2.91	3.49	5.81	2.91
G11L	6.49	20.78	1.95	10.39	21.43	3.90	0.65	1.95	2.60	1.95
G11C	0.00	26.02	1.63	5.69	0.00	3.25	7.32	4.07	6.50	0.00
G11D	7.39	38.52	1.17	4.67	0.39	2.33	6.61	2.33	3.50	1.56
G12	5.76	17.80	2.09	4.71	5.76	0.52	2.62	2.09	2.62	1.05
G13	5.24	20.62	1.80	6.06	7.37	2.78	2.95	2.78	3.11	0.82
G14	8.26	27.52	1.83	8.26	13.76	2.75	1.84	0.00	1.83	0.92
G15L	6.48	33.10	3.01	4.17	2.55	3.24	2.78	3.01	0.93	0.69
G15C	6.74	23.60	4.49	19.10	33.71	5.62	4.49	2.25	5.62	0.00
G15D	3.50	13.50	1.00	9.50	18.50	3.00	1.00	4.50	3.00	0.50
G16A	1.77	19.47	3.54	7.30	7.74	3.54	2.21	3.32	2.21	1.11
G16B	1.57	20.81	2.92	11.02	11.14	2.70	3.37	2.81	1.80	1.12
G17	7.79	30.58	1.48	6.12	1.85	1.39	3.71	1.76	2.32	1.11
G18	3.21	18.12	1.61	11.24	22.48	5.28	4.82	2.52	5.96	2.75
G19L	5.77	26.92	4.67	7.69	0.00	10.16	1.37	2.20	2.47	1.65
G19C*	0.00	50.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G19D	14.05	39.26	3.72	7.44	0.00	1.65	2.48	3.31	2.48	0.00
G20	6.84	26.38	1.63	5.54	5.54	6.19	2.93	2.93	3.58	0.65

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		EIC[4]		PHI[5]	
	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
EPA GROUPS										
G21	8.49	25.47	2.83	5.19	4.72	7.55	0.94	2.83	2.36	0.47
G22	5.30	25.83	3.97	4.64	3.97	5.30	1.32	1.32	1.32	1.32
G23A	3.37	10.11	3.37	7.87	13.48	4.49	1.12	1.12	0.00	1.12
G23B	8.49	20.89	1.82	7.80	10.83	4.07	2.43	4.07	1.82	1.91
G23C	2.78	27.78	2.78	3.70	12.96	1.85	2.78	5.56	2.78	1.85
G23E	4.49	16.55	1.22	3.66	8.41	2.04	1.76	3.12	3.12	1.63
G23I	1.23	4.94	2.47	6.79	14.51	2.47	1.23	1.85	2.10	1.23
G23J	1.34	4.85	0.00	9.71	12.62	4.85	0.97	2.91	3.88	4.85
G24	2.90	11.24	2.17	19.20	42.03	5.43	3.26	3.62	3.62	1.09
G25A*	0.00	0.00	0.00	26.67	46.67	13.33	0.00	13.33	6.67	0.00
G25B	0.00	1.12	1.12	17.98	40.45	3.37	2.25	4.49	4.49	2.25
G26B	2.41	11.00	3.09	15.81	18.21	5.15	4.12	1.37	1.37	0.34
G26C	1.89	18.87	0.75	6.42	1.13	3.02	0.00	5.28	0.00	0.38
G26E	5.10	19.61	1.18	11.76	7.84	5.88	6.67	3.53	4.31	0.39
G27	7.84	9.70	4.10	10.07	16.42	4.48	2.61	1.12	1.49	0.37
G28	1.52	17.87	1.52	14.07	2.28	3.80	0.76	6.08	0.76	2.66
G29*	0.00	9.52	4.76	19.05	23.81	11.90	2.38	2.38	0.00	2.38
G30	1.37	19.73	3.01	11.51	9.77	1.92	1.10	3.56	0.82	1.64
G31	2.55	10.71	2.04	15.82	9.69	6.12	2.55	2.55	1.02	1.02
G32	2.00	16.29	2.86	10.86	11.43	3.14	4.86	2.57	2.29	0.29
G33	4.61	11.75	1.84	11.29	8.76	2.07	4.38	1.15	1.15	0.23
G34	11.01	20.18	4.59	20.18	8.26	11.01	0.00	2.75	0.00	2.75
G35*	4.76	28.57	9.52	9.52	19.05	0.00	0.00	0.00	0.00	0.00
G36*	0.00	2.38	4.76	7.14	30.95	4.76	0.00	0.00	0.00	2.38
G37	5.46	10.45	3.80	10.69	25.65	3.56	1.90	1.19	1.19	0.24

TABLE 6.3: PERCENTAGE MISREPORTING
MAJOR FIELDS

GROUPS	NTI[1] Too High	NTI[1] Too Low	AGI[2] Too High	AGI[2] Too Low	Taxes[3] Too High	Taxes[3] Too Low	MS[4] Too High	MS[4] Too Low	PMS[5] Too High	PMS[5] Too Low
OTHER GROUPS TO TEST										
OTHER2A*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER2B*	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00
OTHER2C*	1.59	14.29	1.59	14.29	7.94	7.94	0.00	3.17	0.00	1.59
OTHER2D	2.52	10.09	5.05	8.20	3.47	5.36	4.42	1.89	2.84	1.89
OTHER3A	4.73	18.43	10.21	27.78	22.60	13.03	3.19	3.53	3.49	1.65
OTHER3B	9.19	15.44	10.66	34.19	27.21	17.28	14.71	4.78	3.31	4.41
OTHER3C	4.73	20.71	2.14	8.23	9.78	3.45	2.93	2.69	2.34	1.15
OTHER3D	7,77	17.07	2.30	6.79	12.59	3.50	2.19	3.94	1.96	1.53

GUIDE TO READING TABLE 6.4

The 6.4 tables, Table 6.4 Random Sample and Table 6.4 Pre-established Criteria (PEC) Sample show the average magnitude by which applicants misreport in critical fields. The critical fields (i.e., fields which affect EI calculation) are listed in the row across the top of the tables. These fields are: Non Taxable Income (NTI), Adjusted Gross Income (AGI), Taxes Paid (Taxes), Household Size (HS), and Post High Education (PHE). Average positive discrepancy ("Mean +") refers to the magnitude of an increase in the value of a field after validation. This indicates by how much a field was underreported (to the applicant's advantage in the cases of NTI and AGI, and disadvantage in Taxes, HS and PHE). Average negative discrepancy ("Mean -") refers to the magnitude of a decrease in the value of a field after validation. This indicates by how much a field was overreported (to the applicant's disadvantage in the cases of NTI and AGI, and advantage in Taxes, HS, and PHE).

The column on the far left of the table lists the criterion group name (for example, Random Sample EPM Group "G6"). To demonstrate the method for reading these tables, look at Table 6.4 Random Sample, at the far left column marked "EPM Groups" to G6. Read left to right and find "Mean +", the magnitude of applicants underreporting NTI, is 1,794. The magnitude of applicants overreporting NTI ("Mean -") is 542. G6's AGI Mean + is 1,718 and Mean - is 2,365, and so on.

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

	NTI[1]		AGI[2]		Taxes[3]		HS[4]		PHE[5]	
GROUPS	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -
ERR GROUPS										
G1	2,129	1,473	2,764	2,302	509	690	1.43	1.76	1.15	1.07
G2	2,205	1,730	3,117	3,076	620	355	1.20	2.12	1.04	1.12
G3	2,570	1,549	3,270	3,324	666	935	1.33	1.61	1.09	1.12
G4	3,061	2,479	2,7[illegible]	4,338	754	410	1.54	1.39	1.09	1.05
G5*	1,747	825	2,708	7,003	1,165	550	1.43	2.00	1.00	1.00
G6	1,794	542	1,718	2,365	556	437	1.19	1.00	1.10	1.00
G7	2,010	2,520	2,359	1,404	587	544	1.33	1.17	1.10	1.09
G8*	1,421	2,000	2,280	2,329	656	529	1.00	1.50	1.00	1.13
G9	669	3,867	2,398	2,165	856	542	1.47	1.43	1.03	1.00
G10	562	2,502	2,672	2,150	696	735	1.52	1.22	1.23	1.00
G11I	1,820	1,167	2,912	1,618	395	634	2.22	1.50	1.00	1.17
G11C	3,359	N/A*[1]	4,546	3,644	929	297	1.50	2.21	1.00	1.30
G11D	1,789	2,965	6,983	1,993	1,024	174	1.54	1.75	1.05	1.42
G12	2,040	1,441	3,573	6,036	483	327	1.30	1.75	1.00	1.00
G13	2,348	3,847	5,168	4,393	647	472	1.50	1.59	1.02	1.03
G14	2,178	N/A	1,851	21494	709	1,131	1.33	1.86	1.00	1.00
G15I	3,252	2,201	4,477	3,258	920	142	1.33	1.89	1.00	1.17
G15C	1,422	255	806	170	203	472	1.83	1.60	1.00	1.57
G15L	1,892	958	4,052	3,380	461	897	1.45	2.00	1.00	1.27

FOOTNOTES:

[1] NTI - Non Taxable Income

[2] AGI - Adjusted Gross Income

[3] Taxes

[4] HS - Household Size

[5] PHE - Post High Education

*Less than one-half of one percent of sample population.

*[1] Not applicable.

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

	NTI[1]		AGI[2]		Taxes[3]		FS[4]		PHF[5]	
GROUPS	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -
EPH GROUPS										
G16A	2,900	1,160	3,208	2,650	510	463	1.47	1.29	1.00	1.10
G16B	3,260	651	4,706	2,529	515	1,390	1.37	1.80	1.02	1.21
G17	2,330	1,920	8,241	1,075	611	275	1.46	1.93	1.04	1.19
G18	2,445	3,071	3,797	3,473	592	2,263	1.17	2.12	1.11	1.18
G19B	3,030	1,472	3,106	5,781	1,124	N/A	1.54	1.11	1.10	1.13
G19C*	1,369	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G19D	2,360	3,841	3,440	3,658	589	N/A	1.57	1.50	1.07	1.00
G20	3,052	619	2,249	5,047	535	237	1.42	1.00	1.14	1.00
G21	1,485	1,481	1,227	6,562	1,244	273	1.50	1.20	1.15	1.00
G22	2,797	3,344	2,778	3,970	780	162	1.15	2.40	1.00	1.50
G23D	3,821	7,580	3,863	1,408	733	715	1.14	1.00	1.08	1.00
G23F	2,304	2,251	2,413	5,314	522	497	1.40	1.34	1.06	1.10
G23G	3,889	401	3,377	5,311	589	562	1.77	1.89	1.00	1.08
G23H	1,935	1,260	2,393	2,080	601	513	1.23	1.76	1.00	1.10
G23I	2,230	4,073	1,627	4,470	568	584	1.36	1.35	1.07	1.04
G23J	2,580	4,160	3,184	3,311	728	432	1.22	1.60	1.00	1.13
G24*	1,193	3,509	5,696	981	1,770	1,994	1.17	1.00	1.00	1.00
G25A*	1,200	N/A	N/A	762	N/A	675	1.00	N/A	1.00	1.00
G25B	1,200	788	478	336	N/A	1,396	1.14	1.00	1.00	1.08
G26B	1,884	563	4,305	1,307	773	616	2.88	2.27	1.00	1.00
G26C	1,967	914	4,101	1,201	637	188	2.90	N/A	1.43	N/A
G26D	1,801	1,372	4,187	2,123	750	320	1.59	1.89	1.00	1.00

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1]		ACI[2]		Taxes[3]		HS[4]		PHE[5]	
	Mean +	Mean −	Mean +	Mean −	Mean +	Mean −	Mean +	Mean −	Mean +	Mean −
EPM GROUPS										
G27	1,718	1,720	2,014	2,431	372	333	2.05	1.33	1.17	1.13
G28	1,709	761	4,227	597	1,069	128	2.62	2.00	1.18	1.00
G29	1,068	1,032	3,694	896	731	249	3.22	1.14	1.17	1.00
G30	1,666	502	4,801	929	1,054	1,484	3.37	2.06	1.37	1.00
G31	2,000	742	4,382	717	899	327	2.91	3.30	1.05	1.14
G32	1,783	1,273	2,977	1,651	596	391	1.91	1.75	1.00	1.00
G33	1,899	1,007	2,965	1,611	479	1,252	2.13	1.79	1.03	1.08
G34	1,735	1,629	1,781	1,214	439	153	2.00	N/A	1.00	1.00
G35	897	727	2,239	1,359	529	197	1.89	N/A	1.00	1.00
G36	1,324	1,197	965	1,455	276	309	2.40	1.00	1.00	1.00
G37	1,760	1,856	3,006	2,171	499	424	2.27	1.41	1.14	1.00
OTHER GROUPS TO TEST										
OTHER1A	2,552	1,433	2,896	3,054	636	595	1.41	1.79	1.08	1.06
OTHER1B	2,362	1,626	2,521	2,777	556	443	1.58	1.59	1.02	1.13
OTHER2A	2,849	1,080	3,145	150	603	342	2.50	1.00	1.00	1.00
OTHER2B	2,233	840	1,839	1,400	278	657	1.75	1.50	1.00	1.00
OTHER2C	2,083	817	3,385	2,708	577	421	2.39	1.67	1.00	1.22
OTHER2D	2,593	2,354	3,291	3,154	819	784	1.37	1.60	1.07	1.09
OTHER3A	2,184	1,412	2,696	2,874	646	509	1.68	1.66	1.08	1.07
OTHER3B	1,597	2,981	2,281	3,082	794	561	1.54	1.36	1.12	1.00
OTHER3C	2,225	1,918	4,207	2,929	718	764	1.86	1.80	1.07	1.12
OTHER3D	1,918	3,177	2,288	4,161	798	615	1.53	1.15	1.08	1.12
OTHER4A	1,775	916	1,240	1,824	285	460	1.45	1.41	1.06	1.05
OTHER4B	1,866	2,385	2,061	2,590	433	222	1.88	1.29	1.03	1.05

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

	NTI[1]		AGI[2]		Taxes[3]		HS[4]		PHE[5]	
GROUPS	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -
PEC GROUPS										
A1	2,707	1,321	7,907	1,704	677	2,362	1.19	1.58	1.02	1.07
A2	2,985	833	7,517	1,564	995	993	1.30	2.18	1.00	1.07
A3	1,831	1,282	8,835	31,357	874	1,865	1.50	2.00	1.00	1.00
A4*	2,812	1,014	8,257	NA*[1]	495	NA	6.00	NA	1.00	1.00
A5	2,911	1,008	5,439	180	1,302	916	3.33	2.84	1.00	1.00
A6	3,525	1,216	9,817	11,439	955	1,502	1.50	2.19	1.02	1.14
A7	2,130	913	6,993	8,389	1,055	2,244	1.47	1.51	1.05	1.06
A8	2,524	1,630	5,371	3,609	751	1,331	1.06	1.48	1.00	1.04
A9	2,362	1,672	5,354	4,289	733	3,108	2.55	1.80	1.17	1.00
A10	1,276	567	3,409	1,143	919	1,517	8.50	1.00	1.50	1.00
A11	3,579	1,440	4,296	3,986	848	1,338	1.25	NA	1.00	1.00
A12	3,088	1,202	7,391	5,609	709	910	1.94	1.33	1.05	1.07
A13	3,530	1,561	5,091	6,163	745	365	2.00	1.57	1.18	1.00
A14	2,656	1,051	2,025	4,014	425	511	1.36	1.22	1.00	1.00
A15	2,187	1,223	2,451	2,552	527	402	1.23	1.25	1.06	1.08
A16	1,968	1,150	3,597	3,914	547	663	2.00	2.00	1.00	1.00
A17*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A18*	NA	NA	3,343	457	131	NA	NA	NA	NA	NA
A20	2,457	1,098	2,892	2,426	656	431	1.18	2.14	1.08	1.32

FOOTNOTES:

[1] NTI - Non Taxable Income

[2] AGI - Adjusted Gross Income

[3] TAXES

[4] HS - Household Size

[5] PHE - Post High Education

*Less than one-half of one percent of sample population.

*[1] Not applicable.

PEC SAMPLE

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean -	AGI[2] Mean +	AGI[2] Mean -	Taxes[3] Mean +	Taxes[3] Mean -	FS[4] Mean +	FS[4] Mean -	FIE[5] Mean +	FIE[5] Mean -
PEC GROUPS										
A21	1,984	1,342	1,633	1,012	496	295	1.61	1.55	1.05	1.00
B	2,245	2,232	2,753	2,705	653	650	1.27	1.63	1.03	1.00
C	1,858	2,294	2,285	2,150	591	566	1.41	1.33	1.00	1.05
D	2,186	2,490	4,152	1,961	1,089	696	1.13	1.25	1.02	1.06
E	2,915	1,631	5,131	2,514	921	772	1.36	1.45	1.06	1.04
F	2,025	570	5,739	190	1,251	117	2.01	2.40	1.11	1.00
G*	1,334	190	869	NA	350	112	NA	1.00	NA	NA
PEC SPLITS										
A1I1	2,087	711	5,259	1,904	360	1,181	1.00	1.00	1.00	1.00
A1I2	3,836	2,232	6,413	488	601	7,328	2.00	1.00	1.00	1.00
A1I3	2,684	1,357	8,983	1,953	769	1,652	1.00	1.79	1.03	1.00
A2I1*	8,210	955	1,519	598	NA	364	NA	4.00	1.00	1.00
A2I2*	2,295	NA	2,997	1,060	522	72	NA	NA	NA	NA
A2I3	2,661	711	8,121	1,726	1,039	1,087	1.30	1.50	1.00	1.08
A2II1	3,179	1,103	8,235	1,448	1,126	1,005	1.25	2.19	1.00	1.00
A2II2	2,146	21	5,966	1,770	792	958	1.50	NA	1.00	1.33
A3I1	1,359	1,282	9,536	31,357	936	2,171	1.67	2.25	1.00	1.00
A3I2*	3,603	NA	6,750	NA	770	534	NA	1.00	1.00	1.00
A3I3*	NA	NA	8,046	NA	NA	333	1.00	NA	NA	NA
A3II1*	NA	658	6,476	NA	NA	213	NA	2.50	NA	NA
A3II2*	1,515	1,387	5,473	NA	544	3,630	2.00	4.50	1.00	1.00
A3II3	1,916	1,365	11,106	31,357	1,024	1,100	1.33	1.00	1.00	1.00
A3III1*	2,019	1,828	7,310	NA	297	484	NA	1.00	NA	NA
A3III2	1,744	1,101	9,046	31,357	1,007	2,171	1.50	2.43	1.00	1.00

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean -	AGI[2] Mean +	AGI[2] Mean -	Taxes[3] Mean +	Taxes[3] Mean -	MS[4] Mean +	MS[4] Mean -	PIE[5] Mean +	PIE[5] Mean -
PEC SPLITS										
A5I1	2,168	600	4,229	NA	420	1,925	6.00	1.00	1.00	1.00
A5I2	2,873	757	6,430	180	1,708	75	2.63	2.97	1.00	1.00
A5I3	3,586	1,813	3,047	NA	795	NA	1.00	3.00	NA	NA
A5II1*	3,561	946	5,714	NA	556	7	7.00	2.75	1.00	1.00
A5II2	2,861	1,020	5,400	180	1,426	1,007	3.00	2.85	1.00	1.00
A5III1*	390	NA	NA	NA	NA	NA	NA	NA	1.00	1.00
A5III2	2,938	1,008	5,439	180	1,302	916	3.33	2.84	1.00	1.00
A6I1	4,471	476	14,687	12,351	670	1,816	1.00	1.14	1.00	1.00
A6I2	3,462	1,357	8,558	10,445	1,003	1,465	1.56	2.31	1.03	1.16
A6II1	3,213	1,027	7,694	1,469	802	549	1.64	2.27	1.00	1.14
A6II2	4,011	1,342	11,669	14,209	1,159	2,196	1.36	2.07	1.05	1.14
A6III1	3,460	1,218	10,493	11,811	1,093	1,654	1.39	2.16	1.02	1.13
A6III2	3,968	1,189	5,563	3,248	371	692	3.00	2.33	1.00	1.25
A6IV1	4,218	NA	4,524	32,447	NA	2,917	1.00	2.00	1.00	1.00
A6IV2	3,490	1,216	10,124	7,016	955	1,336	1.61	2.19	1.02	1.14
A6V1*	5,016	2,082	4,135	1,746	473	NA	1.33	1.80	1.00	1.29
A6V2	3,460	1,140	10,235	13,280	1,006	1,502	1.52	2.22	1.03	1.10
A7I1	1,963	775	5,536	2,389	815	1,435	1.13	1.29	1.00	1.00
A7I2	2,291	1,133	7,575	10,390	1,185	2,613	1.63	1.70	1.06	1.08
A7II1*2	--	--	--	--	--	--	--	--	--	--
A7II2	2,130	913	6,993	8,389	1,055	2,244	1.47	1.51	1.05	1.06
A7III1	1,973	729	7,650	7,377	829	2,062	1.65	1.67	1.06	1.11
A7III2	2,257	1,048	6,358	9,402	1,209	2,432	1.36	1.31	1.03	1.00
A8I1	2,149	2,499	3,244	3,821	292	1,127	1.00	1.13	1.00	1.00
A8I2	2,983	239	6,002	3,552	860	1,402	1.07	1.65	1.00	1.07
A8II1*2	--	--	--	--	--	--	--	--	--	--

*2Compute edits won't allow.

PEC SAMPLE

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1]		AGI[2]		Taxes[3]		ES[4]		PNE[5]	
	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -	Mean +	Mean -
PEC SPLITS										
A8II2	2,524	1,630	5,371	3,609	751	1,331	1.06	1.48	1.00	1.04
A8III1	2,557	551	6,181	3,248	892	1,555	1.10	1.42	1.00	1.00
A8III2	2,498	2,888	4,040	4,029	479	1,013	1.00	1.54	1.00	1.00
A9I1	2,921	2,309	5,973	2,491	598	1,929	1.75	1.67	1.00	1.00
A9I2	1,525	548	4,963	7,565	1,005	3,975	3.00	2.33	2.00	NA
A9I3*	2,450	500	932	4,321	NA	5,595	1.00	1.00	1.00	1.00
A9II1*[2]	--	--	--	--	--	--	--	--	--	--
A9II2	2,362	1,672	5,354	4,209	733	3,108	2.55	1.80	1.17	1.00
A9III1	3,103	940	11,154	10,393	1,289	4,662	4.00	1.00	1.00	1.00
A9III2	2,136	1,864	4,239	1,848	549	2,743	1.71	1.89	1.20	1.00
A10I1*	969	689	2,921	655	1,000	1,519	NA	NA	1.00	1.00
A10I2*	1,684	229	4,394	2,100	858	1,643	3.50	1.00	2.00	1.00
A10I3*	NA	NA	579	NA	NA	704	NA	NA	NA	NA
A10II1*[2]	--	--	--	--	--	--	--	--	--	--
A10II2	1,276	567	3,409	1,143	919	1,517	8.50	1.00	1.50	1.00
A10III1	1,604	740	1,649	1,274	73	2,969	NA	1.00	1.00	1.00
A10III2	869	50	4,129	1,117	1,258	1,034	8.50	NA	2.00	1.00
A12I1	3,514	1,079	7,670	3,679	467	1,477	1.00	1.14	1.06	1.00
A12I2	2,775	790	7,696	6,586	825	533	2.28	1.10	1.06	1.09
A12I3	3,167	1,603	5,878	3,167	918	127	1.80	1.70	1.00	1.13
A12II1	4,728	1,409	12,127	11,664	989	435	1.18	1.00	1.00	1.00
A12II2	2,901	1,160	6,522	2,450	648	954	2.35	1.38	1.07	1.09
A12III1	3,241	784	9,770	6,200	864	892	2.29	1.33	1.11	1.15
A12III2	2,948	1,488	4,649	5,081	481	926	1.50	1.33	1.00	1.00
A12IV1	3,088	894	6,793	4,087	705	876	2.22	1.39	1.07	1.06
A12IV2	3,177	1,273	9,088	6,603	951	1,126	1.60	1.25	1.00	1.11
A12IV3	2,801	1,981	6,439	11,398	358	518	1.33	1.00	1.00	1.00

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean -	AGI[2] Mean +	AGI[2] Mean -	Taxes[3] Mean +	Taxes[3] Mean -	FS[4] Mean +	FS[4] Mean -	EXE[5] Mean +	EXE[5] Mean -
PEC SPLITS										
A13I1	3,977	1,809	5,102	6,846	688	482	1.50	1.50	1.07	1.00
A13I2*	1,823	1,064	12,505	29	2,007	159	3.50	3.00	2.00	1.00
A13I3*	2,642	NA	2,568	2,057	658	30	NA	1.00	NA	NA
A13II1	3,933	1,950	5,056	7,631	737	398	2.00	1.50	1.21	1.00
A13II2	2,632	783	5,308	3,471	914	219	2.00	2.00	1.00	1.00
A13III1	4,169	2,190	4,515	5,459	792	423	1.00	1.00	1.13	1.00
A13III2	3,244	1,482	5,552	6,789	646	320	2.60	1.80	1.22	1.00
A14I1	2,773	999	1,761	4,194	297	505	1.44	1.50	1.00	1.00
A14I2	2,705	1,265	2,395	4,838	604	597	1.13	1.31	1.00	1.00
A14II1	2,668	1,019	2,116	4,059	490	515	1.37	1.19	1.00	1.00
A14II2	437	813	1,451	NA	NA	NA	NA	NA	1.00	1.00
A14II3*[3]	0	0	0	0	0	0	0.00	0.00	0.00	0.00
A15I1	2,293	1,041	1,658	1,856	325	390	1.21	1.19	1.04	1.03
A15I2	2,182	1,517	3,343	3,634	818	450	1.10	1.29	1.00	1.14
A15II1	2,198	1,230	2,483	2,552	532	407	1.22	1.25	1.06	1.08
A15II2*	1,028	1,300	3,100	NA	NA	1.00	1.50	NA	1.00	1.00
A15II3*[3]	0	0	0	0	0	0	0.00	0.00	0.00	0.00
FI1	2,022	238	5,800	190	1,375	60	2.97	2.40	1.11	1.00
FI2*	1,550	NA	4,967	NA	200	NA	2.50	NA	NA	NA
FII1	1,917	768	3,833	1	476	80	2.56	2.50	1.00	1.00
FII2	2,112	175	6,773	252	1,704	155	3.04	2.33	1.14	NA
FIII1	1,777	238	6,867	23	1,770	30	2.75	1.67	1.00	NA
FIII2	2,203	1,236	4,766	245	785	161	3.06	3.50	1.67	1.00

*[3] No members.

PEC SAMPLE

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean -	AGI[2] Mean +	AGI[2] Mean -	Taxes[3] Mean +	Taxes[3] Mean -	NS[4] Mean +	NS[4] Mean -	PNF[5] Mean +	PNF[5] Mean -
EDN GROUPS										
G1	2,899	919	2,758	1,801	587	554	1.25	1.46	1.13	1.00
G2	2,457	337	6,175	2,867	940	882	1.00	1.13	1.00	1.00
G3	3,123	747	4,234	3,447	563	985	1.29	1.29	1.00	1.17
G4	1,830	1,115	2,414	2,738	586	344	1.38	1.00	1.17	1.00
G5	2,324	3,142	4,526	2,524	1,225	595	1.25	1.00	1.00	1.00
G6	1,861	2,200	1,982	2,255	683	449	1.00	1.25	1.00	1.00
G7	1,059	114	3,952	1,582	752	830	1.00	1.00	1.00	1.11
G8	1,200	NA	3,425	3,772	762	1,120	1.00	3.00	1.00	1.00
G9	2,192	5,601	3,697	3,855	850	1,062	1.00	1.00	1.00	1.20
G10	1,492	2,261	4,009	3,215	865	1,179	1.17	1.00	1.00	1.00
G11B	2,219	617	11,896	5,060	540	1,218	1.67	3.00	1.00	1.00
G11C	3,968	NA	9,470	4,001	599	NA	1.20	2.89	1.00	1.00
G11D	2,488	1,419	2,662	2,046	283	34	1.00	2.47	1.00	1.00
G12	2,004	1,270	4,284	2,345	232	1,974	1.50	3.40	1.00	1.20
G13	2,315	1,298	5,240	5,848	851	2,937	1.29	1.28	1.00	1.21
G14	2,074	1,433	2,184	272	509	1,023	NA	1.50	1.00	1.00
G15B	2,799	1,204	5,343	3,366	655	97	1.46	1.67	1.00	1.00
G15C	2,921	1,143	4,952	32,509	794	4,454	3.00	1.50	1.00	1.00
G15D	2,463	1,948	5,489	54	590	1,197	1.67	1.00	1.00	1.00
G16A	3,142	394	5,308	7,765	764	621	1.33	1.20	1.00	1.10
G16B	3,462	756	6,177	4,453	817	1,484	1.28	1.73	1.08	1.00
G17	3,011	1,613	9,993	9,356	805	849	1.32	1.85	1.00	1.16
G18	2,494	2,233	4,820	11,922	512	4,888	1.45	1.52	1.05	1.23
G19B	2,942	1,188	2,606	8,750	998	NA	1.63	1.20	1.13	1.00
G19C*	2,173	NA	NA	1,104	NA	NA	NA	NA	NA	NA
G19D	1,717	1,363	1,465	1,647	226	NA	1.38	1.33	1.00	1.00
G20	1,846	850	1,702	1,305	518	205	1.22	1.33	1.08	1.00

PEC SAMPLE

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean −	AGI[2] Mean +	AGI[2] Mean −	Taxes[3] Mean +	Taxes[3] Mean −	MS[4] Mean +	MS[4] Mean −	PME[5] Mean +	PME[5] Mean −
EM GROUPS										
G21	1,759	1,069	1,957	2,513	719	156	1.00	1.00	1.00	1.00
G22	1,968	1,811	1,370	3,412	439	166	1.00	1.00	1.00	1.00
G23B	2,718	403	5,829	2,531	1,608	666	1.00	1.00	1.00	NA
G23F	2,185	1,729	2,852	1,916	528	555	1.23	1.39	1.05	1.05
G23G	2,367	1,308	4,238	9,240	1,660	684	1.33	1.00	1.00	1.00
G23H	2,002	1,417	1,620	4,055	265	690	1.30	1.31	1.03	1.09
G23I	1,955	1,425	1,877	1,320	423	672	1.50	1.25	1.00	1.00
G23J	2,765	8,010	4,492	NA	484	757	1.33	1.00	1.00	1.00
G24	2,250	556	6,025	2,578	735	1,278	1.20	1.44	1.00	1.00
G25A*	NA	NA	5,441	NA	835	1,053	2.00	NA	1.00	1.00
G25B	50	NA	4,469	7,290	1,704	1,392	1.00	1.00	1.00	1.00
G26B	1,635	570	5,437	407	631	1,400	2.00	2.17	1.00	1.00
G26C	2,146	867	7,846	2,500	1,700	1,137	2.71	NA	1.00	NA
G26D	3,167	1,030	5,374	749	545	2,475	3.22	3.29	1.00	1.00
G27	1,492	1,060	2,725	2,444	466	647	2.00	1.29	1.00	1.00
G28	1,787	100	4,125	919	846	228	3.31	3.00	1.11	1.00
G29*	1,932	NA	6,178	775	854	8,307	6.00	2.00	3.00	NA
G30	1,630	753	3,166	1,411	930	1,006	3.30	1.75	1.30	1.00
G31	1,658	346	6,024	10,418	820	3,675	6.20	2.80	1.50	1.00
G32	2,340	1,576	6,229	1,752	1,379	6,079	1.56	2.71	1.00	1.38
G33	2,730	1,788	4,492	781	868	2,687	2.00	2.11	1.00	1.00
G34	890	956	2,473	669	505	165	2.67	NA	1.00	NA
G35*	943	83	53	1,916	NA	127	NA	NA	NA	NA
G36*	4,200	NA	690	1,239	76	756	NA	NA	1.00	NA
G37	1,477	1,219	1,913	3,126	530	786	2.20	1.88	1.00	1.00

PEC SAMPLE

TABLE 6.4: MEAN POSITIVE AND MEAN NEGATIVE DISCREPANCIES IN CRITICAL FIELDS

GROUPS	NTI[1] Mean +	NTI[1] Mean −	AGI[2] Mean +	AGI[2] Mean −	Taxes[3] Mean +	Taxes[3] Mean −	NE[4] Mean +	NE[4] Mean −	PNE[5] Mean +	PNE[5] Mean −
OTHER GROUPS TO TEST										
OTHER2A*	NA	NA	NA	NA	NA	NA	NA	NA	1.00	1.00
OTHER2B*	NA	NA	1,682	NA	NA	NA	NA	NA	NA	NA
OTHER2C*	2,421	303	5,664	29	1,054	180	3.50	NA	3.00	NA
OTHER2D	3,878	1,718	5,024	6,546	655	449	1.50	1.57	1.07	1.00
OTHER3A	2,445	1,334	3,647	2,577	683	858	1.51	1.56	1.04	1.10
OTHER3B	1,637	1,497	3,267	3,559	900	832	1.38	1.00	1.19	1.11
OTHER3C	2,522	1,301	5,161	4,796	690	1,872	1.72	1.82	1.03	1.07
OTHER3D	1,747	1,439	2,610	4,921	1,021	921	1.25	1.45	1.03	1.00

GUIDE TO READING TABLE 6.1

Table 6.1, the Group Summary Chart, shows the effect of the validation process on the Eligibility Index (EI) on the Random Sample applicants. The top row of the table indicates the samples, Random Sample and PEC Sample, and the second row indicates the column headings. The far left column lists the criterion group name (for example, G6). The next column, marked "%" indicates what percent of the Random Sample or of the PEC Sample the group constitutes (in the case of G6, its populations are 0.50% of the total Random Sample and 1.67% of the PEC Sample). The definitions for Columns I through V are at the bottom of the table. The "%" columns down for EPM Groups will total 100%, while the rows across for each criterion group, such as G6, will add up to 100% (adding I, II, III, IV and V).

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TABLE 6.1: GROUP SUMMARY CHART

GROUPS	Random Sample						FEC Sample					
	0	I	II	III	IV	V	0	I	II	III	IV	V
EPI GROUPS												
G1	1.39	61.30	9.69	2.64	22.61	3.67	1.97	59.84	19.38	1.96	17.15	0.27
G2	0.91	57.75	18.78	3.60	17.53	1.35	1.12	44.65	26.51	4.19	23.26	1.40
G3	2.25	56.49	17.98	6.90	15.44	1.19	4.32	53.75	24.94	4.72	15.30	1.21
G4	2.26	40.18	25.34	20.00	13.39	1.09	2.29	35.16	34.02	17.35	12.33	1.14
G5	*0.42	31.40	17.97	17.97	30.92	1.93	1.05	33.50	33.00	10.00	23.00	0.50
G6	0.50	53.04	16.60	13.77	14.98	1.02	1.67	45.63	26.88	14.39	12.81	0.31
G7	0.62	40.77	30.32	10.97	16.97	0.97	0.75	34.27	43.30	6.90	14.60	0.70
G8	*0.49	44.90	31.09	6.30	15.13	2.52	0.59	39.94	33.63	8.85	15.04	3.54
G9	1.14	44.87	23.79	10.99	17.17	1.97	0.70	30.26	31.59	13.10	22.37	2.00
G10	0.95	40.34	31.55	10.30	15.45	2.30	1.39	22.26	40.75	6.42	27.17	3.40
G11I	1.19	55.39	13.02	4.34	25.17	2.09	1.07	46.04	22.55	5.39	22.55	1.47
G11C	1.11	59.02	5.50	2.94	30.28	1.47	0.96	59.15	6.52	2.17	30.90	2.17
G11I	1.79	59.45	4.50	5.47	26.13	2.39	1.79	61.00	10.95	4.11	22.29	1.70
G12	1.70	58.79	4.77	3.84	30.85	1.75	1.40	55.58	9.33	4.48	26.12	1.49
G13	4.15	60.51	7.48	5.46	21.15	1.23	4.05	60.26	15.23	4.13	15.23	1.16
G14	0.60	55.44	15.31	4.76	22.11	2.38	0.74	42.25	29.58	6.34	18.31	3.52
G15E	2.32	57.52	8.09	8.27	24.54	1.58	2.93	53.65	15.54	6.06	20.50	1.25
G15C	0.67	53.07	11.66	1.84	30.47	3.07	0.63	39.17	29.33	8.33	23.33	0.83
G15I	1.54	59.13	11.51	5.03	22.88	1.46	1.35	49.61	23.64	5.81	18.99	1.61

I = Exact reporters (i.e., applicants whose EI changed less than 50 points)

II = Over-claimers (i.e., applicants whose EI increased by 50 points or more)

III = Under-claimers (i.e., applicants whose EI lowered by 50 points or more)

IV = Missing (i.e., applicants with no transaction after selection for validation).

V = Rejected

*Less than one-half of one percent of sample population.

TAILE 6.1: GROUP SUMMARY CHART

	Random Sample						PEC Sample					
GROUPS	*	I	II	III	IV	V	*	I	II	III	IV	V
EPI GROUPS												
G16A	1.57	68.14	10.40	3.64	16.38	1.43	2.79	66.48	15.73	3.37	13.67	0.75
G16B	3.30	72.64	5.88	0.00	19.75	1.73	5.70	70.64	11.56	0.00	16.61	1.19
G17	3.97	69.92	6.84	1.39	20.46	1.39	7.03	65.70	14.43	1.04	16.22	2.60
G18	2.11	64.89	14.60	2.22	16.34	1.93	2.76	50.38	29.92	2.84	15.91	0.95
G19B	1.27	45.26	14.45	24.88	14.45	0.96	2.20	42.14	25.24	21.19	10.24	1.19
G19C	*0.01	16.67	16.67	66.67	0.00	0.00	*0.03	16.67	50.00	33.33	0.00	0.00
G19D	0.57	53.79	15.10	16.61	14.08	0.36	1.52	40.89	29.90	14.43	14.43	0.34
G20	1.23	59.50	14.50	11.50	14.17	0.33	1.80	53.04	28.12	8.12	10.72	0.00
G21	0.86	50.59	12.11	20.43	16.15	0.71	1.30	49.80	23.29	14.06	12.05	0.80
G22	0.66	58.57	10.59	13.09	17.13	0.62	0.99	50.53	22.34	10.11	15.43	1.60
G23B	0.72	59.94	13.92	8.81	16.19	1.14	0.53	63.37	19.80	7.92	7.92	0.99
G23F	5.60	57.51	13.38	10.65	16.85	1.60	7.24	48.09	24.20	12.20	13.96	1.59
G23C	0.79	61.44	12.34	7.97	17.74	0.51	0.68	50.00	25.38	10.77	13.08	0.77
G23H	5.58	66.24	11.83	7.30	13.73	0.84	4.53	57.62	21.71	7.85	12.36	0.46
G23I	2.92	62.39	12.11	7.84	16.39	1.26	2.04	62.31	17.18	5.64	14.36	0.51
G23J	0.74	63.64	17.07	3.86	14.88	0.55	0.65	58.06	21.77	8.06	12.10	0.00
G24	*0.47	45.26	29.31	9.05	16.38	0.00	1.80	31.98	40.12	8.72	18.90	0.29
G25A	*0.09	42.22	17.78	6.67	31.11	2.22	*0.09	35.29	47.06	5.88	11.76	0.00
G25B	0.66	57.01	12.40	7.17	20.87	2.49	0.62	38.14	34.75	3.39	20.34	3.39
G26B	4.04	59.72	3.64	0.00	34.92	1.72	2.40	52.61	11.09	0.00	34.35	1.96
G26C	3.79	54.83	2.64	0.00	39.45	3.08	2.37	55.63	3.97	0.00	35.54	4.86
G26D	4.69	56.18	2.00	0.00	40.16	1.66	2.07	58.59	7.07	0.00	32.07	2.27
G27	5.18	43.94	8.40	9.19	37.12	1.34	2.16	41.06	18.60	7.25	32.13	0.97
G28	2.77	75.35	4.80	0.00	18.30	1.55	1.81	71.68	6.07	0.00	19.65	2.60
G29	1.63	73.13	7.50	0.00	18.50	0.88	*0.27	66.67	15.69	0.00	17.65	0.00
G30	2.39	68.32	4.10	0.00	26.05	1.54	2.44	71.46	8.15	0.00	19.74	0.64
G31	2.34	56.93	3.92	0.00	36.70	2.44	1.53	60.41	8.19	0.00	29.69	1.71

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						PEC Sample					
GROUPS	%	I	II	III	IV	V	%	I	II	III	IV	V
EPI GROUPS												
C32	3.27	61.96	2.94	0.00	32.98	2.12	2.56	65.31	6.53	0.00	26.73	1.43
C33	2.94	75.54	3.41	0.00	19.74	1.32	2.70	75.71	7.02	0.00	16.51	0.74
C34	1.29	58.73	9.68	11.27	18.41	1.90	0.71	44.44	25.19	14.07	16.30	0.00
C35	0.84	58.01	8.94	10.44	20.15	2.43	*0.15	53.57	21.43	7.14	17.86	0.00
C36	0.89	44.39	19.22	10.98	24.03	1.37	*0.28	50.00	25.93	3.70	20.37	0.00
C37	4.52	[illegible]	11.25	9.31	29.91	[illegible]	3.17	39.60	25.25	9.24	24.75	1.16
[illegible] GROUPS TO TEST												
2A	2.03	52.04	14.29	9.18	21.43	3.06	*0.06	58.33	8.33	0.00	33.33	0.00
2B	4.61	54.38	10.60	6.45	27.65	0.92	*0.11	71.43	9.52	0.00	14.29	4.76
2C	7.98	52.83	11.86	8.63	25.61	1.08	*0.47	58.43	11.24	1.12	25.84	3.37
2D	85.42	56.82	15.72	8.11	17.76	1.59	2.07	64.39	10.61	5.30	18.43	1.26
3A	14.03	52.13	16.80	7.08	22.28	1.71	17.73	47.36	26.45	6.61	18.52	1.06
3B	2.23	35.78	23.12	18.35	20.64	2.11	2.13	26.54	30.71	12.53	27.52	2.70
3C	73.82	62.06	7.99	4.22	24.14	1.59	73.85	59.03	17.37	4.41	18.90	[illegible]
3D	9.12	51.42	9.94	12.43	24.82	1.39	6.27	41.75	21.75	16.17	18.67	1.67

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						PEC Sample					
GROUPS	%	I	II	III	IV	V	%	I	II	III	IV	V
PEC GROUPS												
A1	*1						7.60	58.71	15.76	4.61	19.96	0.96
A2							2.43	43.32	26.72	7.33	21.34	1.29
A3							1.24	50.63	16.46	0.84	30.38	1.69
A4							*0.37	39.44	25.35	4.23	30.98	0.00
A5							3.95	70.63	2.51	0.00	25.26	1.59
A6							9.18	69.46	4.10	3.87	20.63	1.94
A7							8.05	37.04	35.61	4.42	21.38	1.56
A8							4.11	33.72	39.06	4.96	20.36	1.91
A9							3.12	38.10	28.48	2.85	28.96	1.61
A10							0.81	31.22	25.97	3.25	37.66	1.90
A11							1.14	43.39	23.20	6.95	24.60	1.83
A12							10.08	64.68	10.74	5.08	18.21	1.30
A13							2.72	63.53	10.56	4.22	19.96	1.73
A14							6.78	33.49	38.27	7.64	18.52	2.08
A15							13.69	40.13	34.10	8.51	16.23	1.03
A16							0.82	49.68	7.64	1.91	38.22	2.55
A17							*0.02	25.00	0.00	0.00	75.00	0.00
A18							*0.03	40.00	40.00	0.00	20.00	0.00
A19							*0.00	0.00	0.00	0.00	0.00	0.00
A20							4.65	50.56	25.06	7.98	15.06	1.35

*[1] Random selection occurs before applicants are selected for PECs, therefore there are no random sample applicants to compare against PEC groups.

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						PEC Sample					
GROUPS	%	I	II	III	IV	V	%	I	II	III	IV	V
PEC GROUPS												
A2I							3.83	50.39	21.15	10.37	16.23	1.30
B							13.73	61.43	17.50	7.23	12.75	0.00
C							6.07	69.08	14.13	6.63	9.56	0.60
D							6.45	62.40	17.47	7.41	11.02	0.91
E							6.44	61.25	15.60	5.36	16.33	1.46
F							4.54	67.06	7.92	0.00	21.11	3.92
G							*0.06	63.64	18.18	9.09	9.09	0.00
PEC SPLITS												
A1I1							0.79	55.25	13.92	2.63	27.20	[illegible]
A1I2							1.30	54.44	14.92	2.42	27.42	0.81
A1I3							5.51	66.21	10.24	5.41	17.00	1.14
A2I1							*0.15	44.83	13.79	0.00	41.38	0.00
A2I2							*0.21	47.50	10.00	5.00	32.50	5.00
A2I3							2.07	42.78	29.37	8.10	18.73	1.01
A2II1							1.92	45.11	23.91	6.52	23.37	1.09
A2II2							0.50	36.46	37.50	10.42	13.54	2.08
A3I1							0.91	51.15	17.82	1.15	27.59	2.30
A3I2							*0.29	47.27	12.73	0.00	40.00	0.00
A3I3							*0.04	62.50	12.50	0.00	25.00	0.00
A3II1							*0.23	47.73	9.09	0.00	43.18	0.00

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						PEC Sample					
GROUPS	0	I	II	III	IV	V	0	I	II	III	IV	V
PEC SPLITS												
A3II2							*0.33	57.81	14.06	0.00	25.00	3.13
A3II3							0.67	[illegible]	[illegible]	1.55	[illegible]	[illegible]
A3III1							*0.18	55.88	29.41	5.88	8.82	0.00
A3III2							1.00	49.75	14.29	0.00	[illegible]	[illegible]
A5I1							1.13	70.97	2.30	0.00	25.81	0.92
A5I2							1.65	[illegible]	2.05	0.00	[illegible]	1.61
A5I3							0.87	71.69	1.81	0.00	24.10	2.41
A5II1							*0.41	[illegible]	[illegible]	0.00	[illegible]	[illegible]
A5II2							3.54	70.65	2.51	0.00	25.37	1.47
A5III1							*0.07	85.71	0.00	0.00	7.14	7.14
A5III2							3.88	70.35	2.56	0.00	25.61	1.48
A6I1							1.92	[illegible]	3.24	5.14	11.35	1.35
A6I2							7.24	66.93	4.33	3.54	23.10	2.09
A6II1							4.30	65.45	[illegible]	[illegible]	[illegible]	[illegible]
A6II2							4.87	73.04	3.97	3.65	17.83	1.50
A6III1							0.33	70.50	3.77	[illegible]	[illegible]	1.92
A6III2							0.85	59.26	7.41	3.09	27.16	3.09
A6IV1							[illegible]	76.00	4.67	6.67	10.67	2.00
A6IV2							8.30	68.85	4.05	3.61	21.56	1.93
A6V1							*0.45	44.83	9.20	27.59	16.09	2.30
A6V2							8.72	70.74	3.84	2.64	20.86	1.92
A7I1							2.51	40.63	30.63	4.38	23.13	1.25
A7I2							5.54	35.41	37.87	4.44	20.59	1.70

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						FEC Sample					
GROUPS	?	I	II	III	IV	V	?	I	II	III	IV	V
FEC SPLITS												
A10III1							*0.16	22.58	38.71	3.23	35.48	0.00
A10III2							0.64	34.15	22.76	3.25	38.21	1.63
A12I1							2.44	59.96	16.70	6.64	15.42	1.28
A12I2							5.31	67.62	8.40	4.33	18.50	1.15
A12I3							2.23	63.70	9.60	5.15	19.67	1.87
A12II1							2.59	70.07	7.26	7.26	13.51	1.91
A12II2							7.49	62.50	11.94	4.33	19.83	1.40
A12III1							4.99	66.74	9.61	5.56	17.15	0.94
A12III2							5.06	62.77	12.62	4.65	18.30	1.65
A12IV1							6.31	69.54	7.37	0.00	21.60	1.49
A12IV2							2.91	63.85	15.65	8.27	11.87	0.36
A12IV3							0.96	29.70	18.79	31.52	16.97	3.03
A13I1							1.97	62.50	11.97	5.95	17.72	1.86
A13I2							*0.39	64.91	10.53	0.00	22.81	1.75
A13I3							*0.40	67.05	4.55	0.00	27.27	1.14
A13II1							1.97	60.11	13.83	3.99	20.49	1.60
A13II2							0.76	72.41	2.07	4.83	18.62	2.07
A13III1							1.09	59.17	19.27	2.88	18.71	0.00
A13III2							1.64	67.09	5.43	5.11	20.13	2.24
A14I1							3.75	35.29	38.21	7.53	17.43	1.53
A14I2							2.36	29.04	40.83	8.52	18.34	3.28
A14II1							6.50	33.79	38.21	7.64	18.26	2.09
A14II2							0.99	50.00	27.78	5.56	16.67	0.00

TABLE 6.1: GROUP SUMMARY CHART

	Random Sample						FLC Sample					
GROUPS	%	I	II	III	IV	V	%	I	II	III	IV	V
FLC SPLITS												
A14II3*[3]							0.00	0.00	0.00	0.00	0.00	0.00
A15I1							7.58	42.90	32.14	7.59	15.93	1.45
A15I2							5.37	37.10	37.45	9.44	15.37	0.58
A15II1							13.28	38.80	34.29	9.54	16.30	1.06
A15II2							*0.16	43.33	20.00	10.00	26.67	0.00
A15II3*[3]							0.00	0.00	0.00	0.00	0.00	0.00
FI1							4.10	64.92	3.70	0.00	27.55	3.83
FI2							*0.30	56.16	5.48	0.00	32.88	5.48
FII1							1.91	56.83	3.55	0.00	34.70	4.92
FII2							2.62	69.32	4.19	0.00	23.31	3.19
FIII1							1.80	60.85	4.23	0.00	30.99	3.94
FIII2							2.69	66.29	3.70	0.00	26.12	3.89

*[3] No members.

GUIDE TO READING THE RECIPIENT AND NON-RECIPIENT SAMPLE TABLES

There are 4 parts to this table. The first two parts cover the Random and PEC Sample tables for the Recipient applicants, while the last two parts cover the Random and PEC Sample tables for the Non-recipient applicants. The Random Sample Recipients table and Non-recipient tables are 9 pages each. The PEC Recipient and Non-recipient tables are 24 pages each. To follow a specific criterion through these tables (for instance, EPM Group G1) keep in mind that there are more columns generated in this table than could be put on two pages.

A list of definitions are included at the end of each part of the table. These column heading definitions indicate why each column is expressed in the form in which it appears on the tables. The reader will find reference to these definitions useful in understanding the relationships between the columns.

To read all the data on EPM Group G1, for example, start on page 1 of the Random Sample Recipients table. The column on the far left of the table lists the criterion Group name, in this case, G1. Follow G1 across the page. Note the first column, "Number Selected", indicates 681 applicants were chosen by the criterion G1 for validation. "Number Recipients", the second column, indicates that number of applicants selected for validation who receive an award after validation, or, 421 applicants. "Percent Recipients Corrected", the third column, shows what percentage of the recipient applicants corrected their application responses as a result of validation; in this case, 44.18% corrected.

The next column, "Of Number Corrected, Percent with EI Change", indicates the percentage of recipients who corrected their responses and also changed their EI, in G1, 43.01% who corrected also changed EI. "Average Effective EI Change", the fifth column, shows the sum of the absolute value of EI change for recipients with an EI change divided by the number of recipients with an EI change. That makes the average effective EI change for G1 equal to 226.19. The last column on the 1st page of the Recipient table, "Of Number Corrected with EI Change, % Raising EI", indicates that percentage of recipients with an EI change whose EI was raised. For G1, 80.00% of recipient applicants who corrected their application responses with an EI change, raised their EI (note its complimentary column on page 4, "Of Number Corrected, % with No EI Change", or, 20.00%). Follow G1 across page 4 and continue on to page 7, where the last two columns are listed.

PEC Sample Group G1 can be followed this way also: PEC G1 will start on page 5, and appear again on pages 13 and 21. Please note that "Average Award", starting on the Non-recipient tables (Random, page 7 and PEC, Page 21), is a hypothetical amount, generated to illustrate the size of award the applicant would have received if not disqualified, and is based on the information given at the time the applicant validated the application responses.

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EFN GROUPS						
G20	600	466	36.70	85.38	220.60	52.05
G21	421	294	48.30	80.99	340.79	33.91
G22	321	227	31.28	85.92	314.69	36.07
G23E	352	261	32.18	79.76	233.33	50.75
G23F	2,742	1,935	32.76	82.02	271.20	54.23
G23G	399	284	28.52	76.54	247.07	61.29
G23H	2,731	2,096	27.19	75.61	235.26	53.36
G23I	1,428	1,031	26.09	80.67	236.97	51.15
G23J	369	278	27.70	81.82	182.35	77.78
G24*	232	104	53.66	81.82	201.63	70.59
G25A*	45	24	41.67	90.00	239.67	66.67
G25B	321	219	29.22	82.81	281.74	54.72
G26B	1,976	1,099	22.04	17.08	524.22	100.00
G26C	1,853	890	25.51	10.57	424.71	100.00
G26D	2,296	1,123	24.22	8.82	419.67	100.00
G27	2,535	1,285	27.47	81.30	415.26	42.16
G28	1,355	974	27.82	12.92	423.54	100.00
G29	800	588	24.83	30.92	475.71	100.00
G30	1,171	765	24.44	15.51	625.86	100.00
G31	1,147	574	22.13	13.39	503.41	100.00
G32	1,601	916	25.87	16.03	383.45	100.00
G33	1,439	1,042	24.76	12.40	392.50	100.00
G34	630	457	31.07	80.99	458.14	42.61
G35	412	294	28.23	80.72	422.85	43.28

RANDOM SAMPLE

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EPM GROUPS						
G36	437	272	38.60	93.33	386.05	59.18
G37	2,213	1,313	29.17	85.90	404.01	49.24
OTHER GROUPS TO TEST						
OTHER1A	3,499	2,499	24.65	77.37	242.03	55.22
OTHER1B	4,867	3,282	32.05	66.73	299.82	56.13
OTHER2A	99	61	32.79	85.00	313.59	58.82
OTHER2B	217	130	33.08	62.79	354.41	59.26
OTHER2C	371	227	38.77	62.50	301.64	54.55
OTHER2D	4,020	2,785	38.31	73.57	232.33	62.17
OTHER3A	7,257	4,579	48.00	67.74	265.95	66.39
OTHER3B	1,090	595	52.61	93.29	346.01	42.47
OTHER3C	36,129	23,593	29.48	51.58	275.91	61.54
OTHER3D	4,465	2,714	29.44	80.35	433.80	28.19
OTHER4A	1,880	1,093	29.64	86.42	355.75	51.07
OTHER4B	2,003	1,194	31.07	83.29	347.51	44.66

RECIPIENTS[1]

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Average + Change in Award Post-Valid	Average - Change in Award Post Valid
EPI GROUPS					
G1	259.31	20.00	93.69	298.23	427.17
G2	251.30	20.83	115.15	230.36	337.61
G3	274.44	33.08	120.77	179.75	384.56
G4	209.15	47.78	369.42	307.32	245.49
G5*	323.14	57.14	373.71	262.96	410.88
G6	198.71	45.33	284.65	252.50	251.25
G7	148.75	29.75	160.25	198.96	193.89
G8*	167.85	21.62	111.89	118.09	213.09
G9	167.21	53.42	267.30	253.35	110.37
G10	167.84	27.03	330.25	352.74	209.39
G11B	198.43	29.85	324.00	237.54	320.84
G11C	484.22	40.00	296.83	214.81	409.87
G11D	225.91	50.72	506.49	319.83	390.34
G12	330.56	48.48	300.88	344.87	518.51
G13	231.26	47.76	326.14	278.99	338.87
G14	186.82	21.43	472.56	344.29	291.19
G15B	279.10	56.20	414.42	306.90	380.80
G15C	206.18	15.38	69.00	224.27	355.92
G15D	260.25	43.62	259.63	215.48	258.86
G16A	258.93	33.33	80.25	196.47	356.42
G16B	353.46	0.00	NA[2]	214.53	421.10
G17	302.28	23.88	69.78	254.49	360.86
G18	254.92	20.88	63.13	173.25	397.94
G19B	284.98	68.72	373.75	265.77	326.83
G19C*	534.00	75.00	819.67	562.00	550.00
G19D	219.17	57.75	313.51	239.94	300.96

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[1] Column heading definitions may be found at end of table.

[2] Not applicable.

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Average + Change in Award Post-Valid	Average - Change in Award Post Valid
EPI GROUPS					
G20	228.08	47.95	212.49	178.57	313.82
G21	203.05	66.09	420.55	342.31	302.96
G22	128.18	63.93	419.90	304.81	214.32
G23E	240.79	49.25	225.64	241.17	277.16
G23F	194.48	45.77	362.11	314.40	267.24
G23G	220.63	38.71	288.92	275.43	263.86
G23H	203.66	46.64	270.48	259.27	230.83
G23I	166.56	48.85	310.70	280.70	210.17
G23J	200.33	22.22	119.43	209.44	298.73
G24*	233.18	29.17	399.29	267.65	239.37
G25A*	129.50	33.33	460.00	343.50	187.50
G25B	148.14	45.29	304.04	247.81	210.44
G26B	524.22	0.00	NA	266.02	446.63
G26C	424.71	0.00	NA	203.08	473.97
G26D	419.67	0.00	NA	289.26	489.64
G27	295.96	57.84	502.22	294.02	310.29
G28	423.54	0.00	NA	228.50	445.35
G29	475.71	0.00	NA	232.77	451.64
G30	625.86	0.00	NA	193.54	448.28
G31	503.41	0.00	NA	184.24	418.81
G32	383.45	0.00	NA	217.42	384.26
G33	393.91	0.00	NA	209.35	418.94
G34	343.86	57.39	542.99	336.65	359.86
G35	257.72	56.72	548.87	318.83	362.02

RANDOM SAMPLE

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Average + Change in Award Post-Valid	Average - Change in Award Post Valid
EPI GROUPS					
G36	233.14	40.82	607.78	365.00	257.92
G37	297.93	50.76	506.92	311.06	297.09
OTHER GROUPS TO TEST					
OTHER1A	221.72	44.79	267.08	258.25	253.96
OTHER1B	253.80	43.87	352.69	273.36	325.02
OTHER2A	259.40	41.18	391.00	385.60	270.79
OTHER2B	358.06	40.74	349.09	225.89	386.52
OTHER2C	333.97	45.45	262.84	255.91	327.00
OTHER2D	215.12	37.83	260.62	244.50	294.76
OTHER3A	273.19	33.11	251.16	233.63	337.88
OTHER3B	149.28	57.53	491.21	401.21	125.16
OTHER3C	271.07	38.46	283.76	235.32	375.56
OTHER3D	91.89	71.81	567.88	408.93	128.57
OTHER4A	204.60	48.93	513.52	306.60	253.69
OTHER4B	298.52	55.34	387.05	253.38	341.51

RECIPIENTS[1]

EPM GROUPS	Of Number Corrected, Percent With No EI Change	Percent Recipients Did Not Correct			
G1	56.99	55.82			
G2	35.57	50.17			
G3	36.01	47.78			
G4	8.76	38.01			
G5*	7.55	48.04			
G6	9.64	54.14			
G7	8.33	42.86			
G8*	8.64	48.73			
G9	6.41	51.10			
G10	7.50	46.31			
G11B	33.66	70.38			
G11C	68.42	69.35			
G11D	62.50	62.98			
G12	55.10	71.10			
G13	56.59	66.03			
G14	25.00	70.53			
G15B	45.20	65.03			
G15C	23.53	72.73			
G15D	28.79	73.01			
G16A	40.33	67.39			
G16B	78.95	68.17			
G17	71.49	64.01			
G18	30.00	65.70			
G19B	14.10	49.56			
G19C*	0.00	20.00			
G19D	14.46	59.31			

[1] Column heading definitions may be found at end of table.

RANDOM SAMPLE

RECIPIENTS

EPM GROUPS	Of Number Corrected, Percent With No EI Change	Percent Recipients Did Not Correct			
G20	14.62	63.30			
G21	19.01	51.70			
G22	14.08	68.72			
G23D	20.24	67.82			
G23F	17.98	67.24			
G23G	23.46	71.48			
G23H	24.39	72.81			
G23I	19.33	73.91			
G23J	18.18	72.30			
G24*	18.18	46.34			
G25A*	10.00	58.33			
G25B	17.19	70.78			
G26B	82.92	77.96			
G26C	89.43	74.49			
G26D	91.18	75.78			
G27	18.70	72.53			
G28	87.08	72.18			
G29	69.18	75.17			
G30	84.49	75.56			
G31	86.61	77.87			
G32	83.97	74.13			
G33	87.60	75.24			
G34	19.01	68.93			
G35	19.28	71.77			

RECIPIENTS

	Of Number Corrected, Percent With No EI Change	Percent Recipients Did Not Correct			
EPI GROUPS					
G36	6.67	61.40			
G37	14.10	70.83			
OTHER GROUPS TO TEST					
OTHER1A	22.63	65.35			
OTHER1B	33.27	67.95			
OTHER2A	15.00	67.21			
OTHER2B	37.21	66.92			
OTHER2C	37.50	61.22			
OTHER2D	26.43	61.69			
OTHER3A	32.26	52.00			
OTHER3B	6.71	47.39			
OTHER3C	49.42	70.52			
OTHER3D	19.65	70.56			
OTHER4A	13.58	70.36			
OTHER4B	16.71	68.93			

Recipient Table Heading Definitions

Number Selected - Those applicants chosen by a criterion (PFC, PFC Split, EF or Other) for validation.

Number Recipients - Those applicants chosen by a criterion (PFC, PFC Split, EF or Other) who receive an award after validation.

Percent Recipients Corrected - Those applicants who change their responses as a result of validation, listed as a percentage of number recipients.

Of Number Corrected Percent With EI Change - Those applicants who change their responses and change their EI after validation, listed as a percentage of recipients corrected.

Average Effective EI Change - Measures the sum of the absolute value of EI change for recipients divided by the number of recipients with EI change.

Of Number Corrected With EI Change, % Raising EI - The number of recipients raising EI divided by the number of recipients correcting with EI change.

Average Amount EI is Raised - The sum of positive EI change divided by the number of recipients with EI change.

Of Number Corrected With EI Change, % Lowering EI - The number of recipients lowering EI divided by the number of recipients correcting with EI change.

Average Amount EI is Lowered - The sum of negative EI change divided by the number of recipients with EI change.

Average + Change In Award Post Validation - The sum of the increase in award to recipients who correct their responses as a result of validation divided by the number of recipients whose corrections caused a post validation increase in award.

Average - Change In Award Post Validation - The sum of the decrease in award to recipients who correct their responses as a result of validation divided by the number of recipients whose corrections caused a post validation decrease in award.

Of Number Corrected, Percent With No EI Change - Those applicants who change some of their responses as a result of validation, and those changes do not cause a change in EI, listed as a percentage of number corrected.

Percent Recipients Did Not Correct - Those applicants who do not change their responses as a result of validation, listed as a percent of number recipients.

PEC SAMPLE

RECIPIENTS[1]

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
PEC Groups						
A1	1,453	987	34.75	64.43	406.23	68.33
A2	464	272	57.72	75.80	374.15	78.15
A3	237	119	48.74	34.48	461.00	90.00
A4*	71	37	54.05	75.00	458.07	86.67
A5	756	461	30.15	8.63	434.58	100.00
A6	1,755	1,154	38.47	23.20	466.69	44.66
A7	1,539	920	60.11	83.01	263.49	88.15
A8	786	467	65.52	86.27	290.72	86.74
A9	597	302	59.93	66.30	387.71	90.00
A10	154	65	58.46	57.89	446.46	81.82
A11	219	125	54.40	64.71	303.23	72.73
A12	1,928	1,314	47.95	37.62	424.25	59.92
A13	521	333	43.84	39.04	408.42	61.40
A14	1,296	794	63.22	80.05	299.40	78.73
A15	2,619	1,755	61.31	89.13	250.47	73.72
A16	157	73	28.77	33.33	267.14	85.71
A17*	4	1	100.00	100.00	23.00	100.00
A18*	5	3	100.00	66.67	395.50	100.00
A19*	0	0	0.00	0.00	0.00	0.00
A20	890	594	58.42	75.22	248.99	69.73
A21	733	495	56.57	74.29	230.69	66.83
B	2,627	2,008	38.05	73.04	284.05	64.34
C	1,161	960	34.79	70.06	246.37	65.81
D	1,242	972	39.09	75.00	296.48	63.86
E	1,231	857	39.67	55.59	408.50	69.31
F	868	508	29.53	14.67	546.69	100.00
G*	11	7	28.57	50.00	140.00	0.00

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[1] Column heading definitions may be found at end of table.

*Less than one-half of one percent of sample population.

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
PEC SPLITS						
A1I1	152	90	25.56	65.22	679.40	73.33
A1I2	248	150	32.00	50.00	634.04	75.00
A1I3	1,053	747	36.41	66.91	353.75	67.03
A2I1*	29	13	46.15	33.33	301.50	100.00
A2I2*	40	20	45.00	55.56	229.60	80.00
A2I3	395	239	59.41	78.87	381.95	77.68
A2II1	369	214	53.27	76.32	388.72	79.16
A2II2	96	59	74.14	74.42	334.53	79.13
A3I1	174	91	46.15	35.71	488.73	86.67
A3I2*	55	22	54.55	33.33	399.75	100.00
A3I3*	8	6	66.67	25.00	290.00	100.00
A3II1*	44	17	41.18	14.29	773.00	100.00
A3II2*	64	33	42.42	14.29	170.00	100.00
A3II3	129	69	53.62	45.95	476.59	83.24
A3III1*	34	25	60.00	60.00	297.22	77.78
A3III2	203	94	45.74	25.58	595.00	100.00
A5I1	217	135	23.70	12.50	419.00	100.00
A5I2	373	216	35.19	7.89	472.33	100.00
A5I3	166	110	28.18	6.45	352.50	100.00
A5II1*	78	55	30.91	5.88	438.00	100.00
A5II2	678	406	30.05	9.02	434.27	100.00
A5III1*	14	11	9.09	0.00	NA[2]	0.00
A5III2	742	450	30.67	8.70	434.58	100.00
A6I1	370	296	28.04	30.12	450.72	28.00
A6I2	1,385	858	42.07	21.61	471.81	50.00
A6II1	822	491	42.97	20.85	489.16	43.18
A6II2	931	662	35.20	25.32	449.93	45.76

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[2] Not applicable.

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
PEC SPLITS						
A6III1	1,593	1,069	38.35	22.93	471.90	40.58
A6III2	162	85	40.00	26.47	412.22	52.94
A6IV1	150	119	29.41	42.86	450.47	40.00
A6IV2	1,605	1,035	39.52	21.52	469.46	45.45
A6V1*	87	51	47.06	87.50	819.52	19.05
A6V2	1,668	1,103	39.08	19.52	376.33	51.22
A7I1	450	290	57.90	75.93	253.13	86.99
A7I2	1,059	640	61.09	87.21	267.22	88.56
A7II1*[3]	--	--	--	--	--	--
A7II2	1,539	920	60.11	83.91	263.49	88.15
A7III1	770	474	61.60	86.99	286.07	89.37
A7III2	769	446	58.52	90.46	236.15	96.67
A8I1	205	132	64.39	78.82	222.60	91.04
A8I2	580	335	65.97	89.14	313.89	85.28
A8II1*[3]	--	--	--	--	--	--
A8II2	786	467	65.52	86.27	290.72	86.74
A8III1	461	274	66.42	91.21	320.98	96.75
A8III2	325	193	64.25	79.03	239.62	86.73
A9I1	310	147	61.22	81.11	318.41	87.67
A9I2	224	117	60.68	53.52	554.58	94.74
A9I3*	63	38	52.63	45.00	378.56	88.89
A9II1*[3]	--	--	--	--	--	--
A9II2	597	302	59.93	66.30	397.71	90.00
A9III1	114	54	66.67	72.22	383.85	94.62
A9III2	483	248	58.47	64.83	401.54	91.49

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[3] Compute edits won't allow.

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent with EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
PEC SPLITS						
A10I1*	76	30	56.67	70.59	416.92	75.00
A10I2*	61	27	51.85	64.29	508.89	88.89
A10I3*	17	8	37.50	14.29	239.00	100.00
A10II1*[3]	--	--	--	--	--	--
A10II2	154	65	58.46	57.89	446.46	81.82
A10III1*	31	7	42.86	33.33	76.00	100.00
A10III2	123	58	60.34	60.00	464.10	80.95
A12I1	467	326	47.55	54.84	447.14	65.88
A12I2	1,016	700	45.14	30.38	410.49	50.00
A12I3	427	280	55.36	34.84	406.15	66.67
A12II1	496	395	38.44	38.51	452.86	38.60
A12II2	1,432	929	51.88	37.34	415.19	66.67
A12III1	953	664	45.78	34.21	437.71	51.92
A12III2	967	646	50.31	40.62	413.94	65.91
A12IV1	1,207	792	47.98	19.21	429.86	100.00
A12IV2	556	422	44.31	56.15	298.54	53.33
A12IV3	165	100	63.00	93.65	641.02	22.03
A13I1	376	254	47.64	43.80	429.32	60.38
A13I2*	57	29	27.59	12.50	97.00	100.00
A13I3*	88	50	34.00	17.65	143.00	66.67
A13II1	376	236	46.19	45.87	420.22	68.00
A13II2	145	97	38.14	18.92	324.14	14.29
A13III1	208	128	48.44	51.61	350.66	81.25
A13III2	313	205	40.98	29.76	482.36	36.00
A14I1	717	451	64.75	84.93	318.45	77.82

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
PEC SPLITS						
A14I2	450	276	65.94	94.51	252.00	79.64
A14II1	1,243	762	62.99	87.50	303.80	78.26
A14II2	18	12	41.67	100.00	173.80	100.00
A14II3*[4]	0	0	0.00	0.00	0.00	0.00
A15I1	1,450	990	60.20	87.75	235.99	74.76
A15I2	1,028	682	63.49	91.69	235.03	74.04
A15II1	2,540	1,699	61.45	89.37	252.10	59.14
A15II2*	30	20	40.00	100.00	179.25	75.00
A15II3*[4]	0	0	0.00	0.00	0.00	0.00
FI1	784	466	29.61	13.77	522.74	100.00
FI2*	73	37	24.32	22.22	606.00	100.00
FII1	366	181	29.28	13.21	355.14	100.00
FII2	502	327	29.66	15.46	636.07	100.00
FIII1	355	206	34.47	15.49	520.92	100.00
FIII2	513	302	26.16	13.92	572.55	100.00
EPM GROUPS						
G1	376	245	51.43	53.97	223.27	83.92
G2	215	129	65.89	68.24	311.02	75.86
G3	826	584	58.90	65.99	299.77	78.85
G4	438	291	67.35	94.90	280.48	63.44
G5	200	117	64.96	90.79	259.78	72.46
G6	320	237	54.43	92.25	231.82	57.98
G7	143	92	65.22	96.67	171.45	77.59

*[4] No members.

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EPM GROUPS						
G8	113	75	62.67	95.74	264.38	73.33
G9	152	73	56.16	95.12	310.39	61.54
G10	265	131	67.18	97.73	256.17	82.56
G11B	204	131	48.09	77.78	192.51	77.55
G11C	184	88	29.55	30.77	403.13	75.00
G11D	341	208	49.04	49.02	210.32	72.00
G12	208	163	38.04	50.00	399.99	67.74
G13	775	520	41.92	53.67	272.71	75.21
G14	142	91	49.45	84.44	238.16	78.95
G15B	561	377	48.81	64.67	264.06	68.91
G15C	120	63	60.32	76.32	339.17	72.41
G15D	258	173	41.04	81.69	442.26	74.14
G16A	534	402	40.55	55.21	243.54	74.40
G16B	1,090	751	39.55	31.99	326.41	100.00
G17	1,344	958	48.23	41.13	303.56	88.95
G18	528	378	54.23	78.54	271.28	87.59
G19B	420	305	57.38	88.00	415.36	46.10
G19C*	6	4	75.00	100.00	243.00	33.33
G19D	291	207	63.29	88.55	217.21	63.79
G20	345	265	49.06	86.92	239.42	75.22
G21	249	178	47.75	89.41	213.18	63.16
G22	188	131	41.22	96.30	258.54	57.69
G23D	101	86	38.37	84.35	270.32	64.29
G23F	1,385	995	49.15	89.78	249.54	62.41

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EPM GROUPS						
G23G	130	90	43.88	93.02	241.40	62.50
G23H	366	645	36.43	83.53	229.40	67.01
G23I	390	300	32.00	83.33	412.43	71.25
G23J	124	101	39.60	87.50	188.43	71.43
G24	344	205	56.59	93.97	269.76	76.15
G25A*	17	10	50.00	100.00	106.20	60.00
G25B	118	71	49.30	88.57	224.10	87.10
G26B	460	232	35.78	30.12	453.16	100.00
G26C	453	220	25.45	16.07	527.44	100.00
G26D	396	196	36.22	25.35	460.67	100.00
G27	414	221	39.01	85.71	392.21	69.06
G28	346	245	39.18	16.67	357.81	100.00
G29*	51	33	42.42	21.43	837.23	100.00
G30	466	317	39.43	19.40	584.74	100.00
G31	293	164	37.80	22.58	569.29	100.00
G32	490	292	36.99	20.37	538.46	100.00
G33	527	381	35.70	16.91	397.74	100.00
G34	135	91	42.86	94.87	444.19	45.95
G35*	28	23	39.13	100.00	385.00	77.78
G36*	54	38	42.11	81.25	267.92	76.92
G37	606	353	43.34	88.89	417.54	63.97

RECIPIENTS

Criterion	Number Selected	Number Recipients	Percent Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
OTHER GROUPS TO TEST						
OTHER2A*	12	5	20.00	0.00	NA	0.00
OTHER2B*	21	13	23.08	0.00	NA	0.00
OTHER2C*	89	44	38.64	29.41	166.80	80.00
OTHER2D	399	269	46.10	41.94	431.65	59.62
OTHER3A	3,391	2,211	57.71	73.98	279.23	74.89
OTHER3B	407	180	58.89	94.34	329.30	55.00
OTHER3C	14,126	9,603	43.43	61.79	272.97	74.66
OTHER3D	1,200	713	43.20	89.61	494.30	45.65

RECIPIENTS[1]

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
PEC Groups					
A1	414.66	31.67	388.03	312.07	266.19
A2	391.25	21.85	313.00	225.59	382.65
A3	488.50	10.00	213.50	240.86	399.49
A4*	350.23	13.33	1,159.00	476.75	283.03
A5	434.59	0.00	NA	257.81	379.14
A6	434.17	55.34	492.93	319.71	405.86
A7	260.95	11.95	283.11	253.39	285.54
A8	278.86	13.26	369.31	284.59	304.19
A9	380.82	10.00	549.67	281.32	334.49
A10	402.28	18.18	645.25	278.90	384.30
A11	387.84	27.27	407.58	269.47	280.14
A12	376.06	40.08	496.27	370.58	373.04
A13	350.86	38.60	500.00	326.75	411.05
A14	281.64	21.27	365.16	307.04	316.75
A15	249.88	26.28	252.10	256.47	301.66
A16	262.83	14.29	293.00	214.75	449.09
A17*	23.00	0.00	NA	NA	NA
A18*	395.50	0.00	NA	NA	414.00
A19*	0.00	0.00	0.00	0.00	0.00
A20	237.79	30.27	274.77	259.58	277.89
A21	232.80	33.17	250.54	268.28	297.37
B	282.06	35.56	287.65	270.88	281.69
C	257.42	34.19	225.11	230.76	347.79
D	316.17	36.14	261.70	256.47	291.13
E	428.33	30.69	363.70	312.45	373.46
F	546.68	0.00	NA	215.46	436.87
G*	NA	100.00	140.00	156.00	291.00

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[1] Column heading definitions may be found at end of table.

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
PLC SPLITS					
A1I1	702.27	26.67	612.75	313.50	353.05
A1I2	595.94	25.00	748.33	447.93	444.00
A1I3	361.98	32.97	337.02	284.59	349.03
A2I1*	301.50	0.00	NA	NA	431.00
A2I2*	187.75	20.00	392.00	62.00	275.00
A2I3	402.67	22.32	309.84	233.38	386.41
A2II1	388.81	21.84	338.42	287.56	393.11
A2II2	397.88	21.88	108.29	60.33	351.76
A3I1	531.00	13.33	213.50	302.20	386.96
A3I2*	399.75	0.00	NA	87.50	450.50
A3I3*	290.00	0.00	NA	NA	471.24
A3II1*	778.00	0.00	NA	247.00	412.00
A3II2*	70.00	0.00	NA	342.25	387.21
A3II3	511.67	11.76	213.50	35.00	401.05
A3III1*	321.14	22.22	213.50	50.00	308.23
A3III2	595.00	0.00	NA	272.67	472.50
A5I1	419.00	0.00	NA	351.43	399.24
A5I2	472.33	0.00	NA	197.96	368.75
A5I3	352.50	0.00	NA	271.44	382.61
A5II1*	438.00	0.00	NA	90.17	378.00
A5II2	434.27	0.00	NA	277.15	379.36
A5III1*	NA	0.00	NA	NA	250.00
A5III2	434.58	0.00	NA	257.81	382.04
A6I1	430.86	72.00	458.44	386.85	436.68
A6I2	434.77	50.00	508.85	306.07	399.27
A6II1	378.79	56.82	573.04	351.49	430.30
A6II2	473.15	54.24	430.34	290.32	388.19

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
PEC SPLITS					
A6III1	452.77	59.42	485.47	297.27	436.29
A6III2	330.57	47.06	698.00	340.46	378.72
A6IV1	494.33	60.00	421.22	362.20	428.44
A6IV2	425.15	54.55	506.38	316.76	403.54
A6V1*	251.50	80.95	953.18	558.41	356.90
A6V2	451.57	48.78	297.33	252.08	408.54
A7I1	264.01	13.01	180.39	238.35	302.34
A7I2	259.73	11.44	325.26	260.69	279.92
A7II1*[3]	--	--	--	--	--
A7II2	260.85	11.85	283.11	253.39	285.54
A7III1	286.42	10.63	283.30	245.39	295.19
A7III2	228.95	13.33	282.93	261.39	272.62
A8I1	204.21	8.96	409.50	309.92	287.05
A8I2	305.96	14.72	359.79	275.65	309.31
A8II1*[3]	--	--	--	--	--
A8II2	278.86	13.26	368.31	284.59	304.19
A8III1	299.28	13.25	462.27	292.61	313.55
A8III2	244.26	13.27	209.31	272.11	283.90
A9I1	299.16	12.33	455.33	295.81	320.64
A9I2	532.53	5.26	951.50	333.56	357.45
A9I3*	351.50	11.11	595.00	47.33	309.21
A9II1*[3]	--	--	--	--	--
A9II2	380.82	10.00	549.67	281.32	334.49
A9III1	398.23	15.38	304.75	222.17	373.24
A9III2	370.37	8.51	672.13	325.69	325.32

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
PEC SPLITS					
A10I1*	271.33	25.00	853.67	280.00	364.50
A10I2*	570.00	11.11	20.00	274.00	388.33
A10I3*	239.00	0.00	NA	NA	468.50
A10II1*[3]	--	--	--	--	--
A10II2	402.20	18.18	645.25	278.80	384.30
A10III1*	76.00	0.00	NA	NA	418.50
A10III2	421.47	19.05	645.25	278.80	381.33
A12I1	447.21	34.12	447.00	340.20	355.00
A12I2	333.19	50.00	487.77	371.38	406.45
A12I3	310.06	33.33	598.33	392.09	343.00
A12II1	448.00	61.40	455.91	381.40	402.16
A12II2	362.00	33.33	519.82	367.61	368.77
A12III1	377.70	48.08	502.52	331.16	384.55
A12III2	374.94	34.00	488.33	410.00	371.00
A12IV1	429.86	0.00	NA	278.03	408.00
A12IV2	350.93	46.67	238.61	274.19	345.34
A12IV3	182.00	77.97	770.74	507.38	268.69
A13I1	368.16	39.62	522.52	357.69	405.21
A13I2*	97.00	0.00	NA	220.50	393.17
A13I3*	201.00	33.33	27.00	209.75	450.99
A13II1	358.74	32.00	550.88	346.42	430.61
A13II2	83.00	85.71	364.33	285.22	305.42
A13III1	320.58	18.75	481.00	293.50	348.48
A13III2	438.33	64.00	507.13	340.05	465.55
A14I1	300.39	22.18	381.84	337.57	337.28

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
PEC SPLITS					
A14I2	242.76	20.36	289.53	271.00	257.69
A14II1	207.05	21.74	364.36	304.00	410.64
A14II2	173.00	0.00	NA	NA	300.00
A14II3*[4]	0.00	0.00	0.00	0.00	0.00
A15I1	244.38	25.24	210.75	223.15	312.98
A15I2	241.49	25.06	216.57	224.96	202.01
A15II1	252.19	41.86	251.84	805.40	354.54
A15II2*	133.00	25.00	256.33	259.33	276.67
A15II3*[4]	0.00	0.00	0.00	0.00	0.00
FI1	522.74	0.00	NA	226.91	422.76
FI2*	600.00	0.00	NA	149.00	527.17
FII1	355.14	0.00	NA	232.46	357.74
FII2	636.07	0.00	NA	193.47	593.05
FIII1	520.82	0.00	NA	157.00	399.56
FIII2	572.55	0.00	NA	228.25	463.05
EPM GROUPS					
G1	255.60	16.18	55.72	214.06	403.20
G2	378.21	24.14	99.86	173.69	434.81
G3	349.27	21.15	115.17	202.74	366.96
G4	229.33	36.56	369.24	331.55	266.01
G5	170.70	27.54	404.21	354.00	196.84
G6	201.77	42.02	273.28	277.19	254.11
G7	175.84	22.41	156.23	158.83	189.55

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
EPI GROUPS					
G8	242.21	26.67	325.33	322.15	290.10
G9	139.17	38.46	584.33	513.23	146.78
G10	243.39	17.44	316.67	232.16	250.81
G11B	205.00	22.45	149.36	159.83	288.94
G11C	217.33	25.00	960.50	192.00	294.04
G11D	170.97	28.00	311.50	278.39	322.68
G12	416.52	32.26	365.00	299.16	404.99
G13	263.10	24.79	301.86	296.27	335.75
G14	234.20	21.05	255.00	390.00	248.77
G15B	253.62	31.09	287.19	262.90	365.54
G15C	338.57	27.59	340.75	331.20	391.63
G15D	466.77	25.86	372.00	337.06	297.16
G16A	305.93	25.56	61.83	156.17	440.28
G16B	326.41	0.00	NA	285.91	404.45
G17	332.42	11.05	71.33	269.62	399.71
G18	296.77	12.42	91.65	304.50	359.43
G19B	306.18	53.90	440.33	340.24	365.51
G19C*	180.00	66.67	274.50	100.00	536.00
G19D	202.84	36.21	242.52	251.66	249.88
G20	257.88	24.78	183.36	148.13	320.02
G21	175.67	36.84	277.50	242.15	233.85
G22	152.90	42.31	402.59	294.00	193.31
G23D	265.83	35.71	278.40	251.46	381.20
G23F	196.71	37.59	337.27	289.87	254.04

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
EPN GROUPS					
G23G	196.52	37.50	316.20	318.46	274.57
G23H	216.66	32.99	255.26	236.00	243.26
G23I	425.51	28.75	380.00	326.96	207.39
G23J	211.32	28.57	131.20	107.14	295.33
G24	233.13	23.85	386.69	220.50	265.91
G25A*	78.67	40.00	147.50	150.00	66.67
G25B	202.74	12.90	368.25	378.00	215.73
G26B	453.16	0.00	NA	227.71	420.22
G26C	527.44	0.00	NA	242.99	434.78
G26D	460.67	0.00	NA	337.09	445.99
G27	319.18	31.94	516.48	392.27	348.19
G28	357.81	0.00	NA	118.83	443.87
G29*	837.33	0.00	NA	155.00	435.20
G30	584.74	0.00	NA	240.50	403.33
G31	569.29	0.00	NA	240.43	422.74
C32	538.46	0.00	NA	241.75	318.97
G33	397.74	0.00	NA	257.45	400.87
G34	360.82	54.05	515.05	639.46	309.88
G35*	213.14	22.22	986.50	511.00	252.57
G36*	240.20	23.08	360.33	207.16	426.88
G37	325.32	36.03	581.27	357.24	325.87

RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Avg. + Change in Award Post-Valid	Avg. - Change in Award Post-Valid
OTHER GROUPS TO TEST					
OTHER2A*	NA	0.00	NA	286.00	688.00
OTHER2B*	NA	0.00	NA	NA	NA
OTHER2C*	203.00	20.00	22.00	188.00	312.46
OTHER2D	369.94	40.38	522.76	352.65	420.61
OTHER3A	290.11	25.11	242.81	249.93	332.13
OTHER3B	124.97	45.00	580.27	503.71	131.34
OTHER3C	276.55	25.34	262.02	236.31	342.37
OTHER3D	365.79	54.35	602.25	485.79	145.59

RECIPIENTS[1]

PEC Groups	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
A1	35.57	65.25
A2	24.20	42.28
A3	65.52	51.26
A4*	25.00	45.95
A5	91.37	69.85
A6	76.80	61.53
A7	10.09	39.89
A8	13.73	34.48
A9	33.70	40.07
A10	42.11	41.54
A11	35.29	45.60
A12	62.30	52.05
A13	60.96	56.16
A14	11.95	36.78
A15	10.87	38.69
A16	66.67	71.23
A17*	0.00	0.00
A18*	33.33	0.00
A19*	0.00	0.00
A20	24.78	41.58
A21	25.71	43.43
B	26.96	61.95
C	29.94	65.21
D	25.00	60.91
E	44.41	60.33
F	85.33	70.47
G*	50.00	71.43

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[1] Column heading definitions may be found at end of table.

RECIPIENTS

	Of Number Corrected, % With No LI Change	Percent Recipients Did Not Correct
PEC SPLITS		
A1I1	34.78	74.44
A1I2	50.00	68.00
A1I3	33.09	63.59
A2I1*	66.67	53.85
A2I2*	44.44	55.00
A2I3	21.13	40.59
A2II1	23.60	46.73
A2II2	25.58	25.86
A3I1	64.29	53.85
A3I2*	66.67	45.45
A3I3*	75.00	33.33
A3II1*	85.71	58.82
A3II2*	85.71	57.58
A3II3	54.05	46.38
A3III1*	40.00	40.00
A3III2	74.42	54.26
A5I1	87.50	70.30
A5I2	92.11	64.81
A5I3	93.55	71.92
A5II1	94.12	69.09
A5II2*	90.98	69.95
A5III1	100.00	90.91
A5III2*	91.30	69.33
A6I1	69.88	71.96
A6I2	78.39	57.93
A6II1	79.15	57.03
A6II2	74.68	64.80

RECIPIENTS

	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
PEC SPLITS		
A6III1	77.07	61.65
A6III2	73.53	60.00
A6IV1	57.14	70.59
A6IV2	78.48	60.48
A6V1*	12.50	52.94
A6V2	80.48	61.92
A7I1	24.07	42.14
A7I2	12.79	38.91
A7II1*[3]	--	--
A7II2	16.09	39.89
A7III1	13.01	38.40
A7III2	19.54	41.48
A8I1	21.19	35.61
A8I2	10.86	34.03
A8II1*[3]	--	--
A8II2	13.73	34.48
A8III1	8.79	33.58
A8III2	20.97	35.75
A9I1	19.89	38.78
A9I2	46.48	39.32
A9I3*	55.00	47.37
A9II1*[3]	--	--
A9II2	33.70	40.07
A9III1	27.78	33.33
A9III2	35.17	41.53

PEC SAMPLE 20

RECIPIENTS

	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
PEC SPLITS		
A10I1*	29.41	43.33
A10I2*	35.71	48.15
A10I3*	85.71	12.50
A10II1*3	--	--
A10II2	42.11	41.54
A10III1*	66.67	57.14
A10III2	40.00	39.66
A12I1	45.16	52.45
A12I2	69.62	54.86
A12I3	65.16	44.64
A12II1	61.49	61.56
A12II2	62.66	49.12
A12III1	65.79	54.22
A12III2	59.33	49.69
A12IV1	80.79	52.02
A12IV2	43.85	55.69
A12IV3	6.35	37.00
A13I1	56.20	52.36
A13I2*	87.50	72.41
A13I3*	82.35	66.00
A13II1	54.13	53.81
A13II2	81.08	61.86
A13III1	43.39	51.56
A13III2	70.24	59.02
A14I1	15.07	35.25

PEC SAMPLE 21

RECIPIENTS

	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
PEC SPLITS		
A14I2	5.49	34.06
A14II1	12.50	37.01
A14II2	0.00	59.33
A14II3*[4]	0.00	0.00
A15I1	12.25	39.80
A15I2	8.31	36.51
A15II1	10.63	38.55
A15II2*	0.00	60.00
A15II3*[4]	0.00	0.00
FI1	86.23	70.39
FI2*	77.78	75.69
FII1	86.79	70.72
FII2	84.54	70.34
FIII1	84.51	65.53
FIII2	80.08	73.84
EPM GROUPS		
G1	46.03	49.57
G2	31.76	34.11
G3	34.01	41.10
G4	5.10	32.65
G5	9.21	35.04
G6	7.75	45.57
G7	3.33	34.78

RECIPIENTS

	Of Number Corrected, % With No LI Change	Percent Recipients Did Not Correct
EMI GROUPS		
G8	4.20	37.33
G9	4.88	43.84
G10	2.27	32.92
G11B	22.22	51.91
G11C	69.23	70.45
G11D	50.98	50.96
G12	50.00	61.96
G13	46.33	59.08
G14	15.56	50.55
G15B	35.33	51.19
G15C	23.60	39.61
G15D	18.31	59.96
G16A	44.79	59.45
G16B	68.01	60.45
G17	58.97	51.77
G18	21.46	45.77
G19B	12.00	42.62
G19C*	0.00	25.00
G19D	11.45	36.71
G20	13.08	50.94
G21	10.59	52.25
G22	3.70	58.78
G23B	15.15	61.63
G23F	10.22	50.85

PEC SAMPLE 23

RECIPIENTS

EPM GROUPS	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
G23G	6.98	50.12
G23H	16.17	63.57
G23I	16.67	68.00
G23J	12.50	60.40
G24	6.03	43.41
G25A*	0.00	50.00
G25B	11.43	50.70
G26B	69.88	64.22
G26C	83.93	74.55
G26D	74.65	63.78
G27	14.29	61.99
G28	83.33	60.82
G29*	78.57	57.58
G30	81.60	60.57
G31	77.42	62.20
G32	79.63	63.01
G33	83.09	64.30
G34	5.13	57.14
G35*	0.00	60.87
G36*	18.75	57.89
G37	11.11	50.66

RECIPIENTS

	Of Number Corrected, % With No EI Change	Percent Recipients Did Not Correct
OTHER GROUPS TO TEST		
OTHER2A*	100.00	80.00
OTHER2B*	100.00	76.92
OTHER2C*	70.59	61.36
OTHER2D	58.06	53.90
OTHER3A	26.02	42.29
OTHER3B	5.66	41.11
OTHER3C	38.22	56.57
OTHER3D	10.39	56.80

NON-RECIPIENTS[1]

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EMI GROUPS					
G1	260	99.23	13.18	288.41	61.76
G2	146	99.32	22.07	454.59	96.88
G3	314	99.68	26.20	556.54	80.49
G4	350	99.43	50.29	672.62	70.29
G5*	105	100.00	32.38	614.32	58.82
G6	66	100.00	34.85	384.78	56.52
G7	79	100.00	51.90	741.99	85.37
G8*	80	100.00	45.00	424.64	88.89
G9	240	98.75	52.74	424.34	75.20
G10	168	100.00	45.24	591.59	80.26
G11B	235	98.72	24.14	751.36	80.36
G11C	235	100.00	14.47	791.56	67.65
G11D	381	98.69	10.37	544.87	53.85
G12	352	99.43	7.14	479.52	68.00
G13	670	99.10	17.92	682.27	65.55
G14	104	100.00	22.12	607.52	73.91
G15B	422	99.53	19.76	760.98	61.45
G15C	139	99.56	17.52	976.09	79.17
G15D	267	100.00	23.60	1,161.03	84.13
G16A	214	98.13	19.52	495.17	68.29
G16B	482	98.76	7.56	1,358.39	100.00
G17	639	99.28	10.67	810.75	80.60
G18	276	98.19	19.56	601.49	86.79
G19B	173	99.42	41.28	889.59	53.52
G19C*	1	100.00	100.00	518.00	0.00
G19D	73	100.00	43.84	381.72	59.38

[1] Column heading definitions may be found at end of table.

*Less than one-half of one percent of sample population.

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EPM GROUPS					
G20	134	100.00	27.61	772.73	62.16
G21	127	98.43	30.80	587.11	50.00
G22	94	97.87	32.61	644.77	73.33
G23B	91	98.90	28.89	1,012.58	73.80
G23F	807	98.51	31.45	612.90	64.00
G23G	105	99.05	26.92	563.96	64.29
G23H	635	99.27	21.87	700.61	79.10
G23I	397	99.24	30.96	820.67	81.07
G23J	85	98.82	29.57	805.42	87.50
G24B	69	97.06	30.30	576.30	91.67
G25A*	21	95.24	25.00	591.00	100.00
G25B	102	98.04	24.00	619.71	83.33
G26B	887	98.87	4.68	1,275.73	100.00
G26C	963	99.58	2.02	1,740.93	100.00
G26D	1,173	99.66	2.14	781.96	100.00
G27	1,250	99.28	17.08	512.68	56.13
G28	381	99.48	8.44	1,460.89	100.00
G29	212	98.11	10.00	1,850.14	100.00
G30	406	98.52	5.00	1,513.55	100.00
G31	573	98.43	6.38	1,134.00	100.00
G32	685	98.83	2.07	868.00	100.00
G33	397	98.74	5.87	856.00	100.00
G34	173	98.84	20.47	564.74	62.86
G35	118	100.00	16.10	542.32	57.89

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change	Of Number Corrected With EI Change, % Raising EI
EPM GROUPS					
G36	165	99.39	28.05	622.74	69.57
G37	900	98.89	19.10	697.08	64.71
OTHER GROUPS TO TEST					
OTHER1A	985	98.59	33.30	707.93	74.30
OTHER1B	1,575	99.37	22.43	708.96	65.53
OTHER2A	37	100.00	29.73	749.18	54.55
OTHER2B	87	98.85	15.12	455.77	61.54
OTHER2C	144	97.92	21.99	822.69	64.52
OTHER2D	1,235	98.87	20.07	685.87	74.37
OTHER3A	2,078	99.48	22.74	668.21	76.32
OTHER3B	495	99.39	46.54	471.41	75.98
OTHER3C	12,537	98.92	13.18	778.37	72.54
OTHER3D	1,751	99.09	28.89	683.91	69.86
OTHER4A	780	99.11	17.46	545.74	69.63
OTHER4B	804	99.38	18.52	445.22	48.65

NON-RECIPIENTS[1]

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, Percent With No EI Change	Of Number Corrected, Percent Became Ineligible
LPN GROUPS					
G1	399.33	38.24	109.23	86.92	0.39
G2	457.16	3.13	375.00	77.93	1.38
G3	667.41	19.51	99.19	73.80	3.51
G4	831.27	29.74	297.10	49.71	16.09
G5*	698.45	41.18	494.14	67.62	8.53
G6	412.46	43.48	371.00	65.15	4.55
G7	823.74	14.63	264.33	49.10	24.05
G8*	449.63	11.11	314.75	55.00	11.25
G9	467.59	24.90	293.19	47.26	33.76
G10	679.49	19.74	234.13	54.76	19.64
G11B	897.62	19.64	153.00	75.86	6.90
G11C	898.91	32.35	567.09	85.53	2.55
G11D	605.19	46.15	474.50	89.63	1.86
G12	495.47	32.00	442.50	92.85	.86
G13	829.54	34.45	402.10	82.08	5.87
G14	551.06	26.09	767.50	77.39	6.73
G15I	981.41	38.55	409.41	80.24	4.05
G15C	1,198.21	20.83	131.60	82.48	8.03
G15D	1,306.51	15.87	391.70	76.40	11.61
G16A	696.18	31.71	62.23	80.48	2.86
G16B	1,358.39	0.00	NA[2]	92.44	3.15
G17	983.06	19.40	95.00	89.33	1.59
G18	681.74	13.21	74.14	80.44	2.59
G19B	1,283.89	46.48	427.61	58.72	13.95
G19C*	NA	100.00	518.00	0.00	0.00
G19D	413.89	40.63	334.69	56.16	9.59

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[1] Column heading definitions may be found at end of table.

[2] Not applicable.

NON-RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, Percent With No EI Change	Of Number Corrected, Percent Became Ineligible
EPM GROUPS					
G20	1,097.13	37.84	239.79	72.39	5.97
G21	847.39	50.00	326.83	63.20	10.40
G22	664.27	26.67	591.12	67.39	19.48
G23B	1,216.10	26.92	459.86	71.11	14.44
G23F	730.18	36.00	429.41	68.55	9.50
G23G	758.33	35.71	213.80	73.08	8.65
G23H	799.07	20.90	327.88	78.13	16.83
G23I	943.59	18.03	306.32	69.04	18.78
G23J	888.48	12.50	224.00	71.43	8.33
G24*	605.64	8.33	254.50	63.64	18.18
G25A*	591.00	0.00	NA	75.00	20.00
G25B	693.10	16.67	252.75	76.00	18.00
G26B	1,275.73	0.00	NA	95.32	1.48
G26C	1,740.93	0.00	NA	97.08	1.25
G26D	781.96	0.00	NA	97.36	.43
G27	592.06	43.97	411.12	82.92	2.66
G28	1,460.88	0.00	NA	91.56	3.43
G29	1,850.14	0.00	NA	90.00	5.29
G30	1,513.55	0.00	NA	95.00	2.00
G31	1,134.00	0.00	NA	93.62	1.95
G32	868.00	0.00	NA	97.93	.44
G33	856.00	0.00	NA	94.13	.51
G34	600.14	37.14	504.85	79.53	5.85
G35	620.73	42.11	434.50	83.90	5.08

NON-RECIPIENTS

Criterion	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering LI	Average Amount EI is Lowered	Of Number Corrected, Percent With No EI Change	Of Number Corrected, Percent Became Ineligible
EPM GROUPS					
G36	701.84	30.43	441.93	71.95	7.32
G37	803.44	35.29	502.67	80.90	4.38
OTHER GROUPS TO TEST					
OTHER1A	843.79	25.70	315.08	66.70	14.82
OTHER1B	904.18	34.47	337.88	77.57	6.29
OTHER2A	886.17	45.45	584.90	70.27	8.11
OTHER2B	414.00	38.46	522.60	84.88	0.00
OTHER2C	1,095.05	35.48	327.46	78.01	4.26
OTHER2D	816.12	25.63	308.00	70.93	10.57
OTHER3A	793.86	23.68	263.15	77.26	4.90
OTHER3B	496.40	24.02	392.35	53.46	28.60
OTHER3C	957.72	27.46	304.62	86.82	3.20
OTHER3D	702.25	30.14	641.40	71.12	17.23
OTHER4A	571.01	30.37	487.91	82.54	3.50
OTHER4B	541.86	51.35	353.66	81.48	1.37

NON-RECIPIENTS[1]

Criterion	Of Number Corrected, Percent Became Rejected	Percent Non-Recipients Did Not Correct	Average Award*[5]			
EFI GROUPS						
G1	9.69	.77	1,475.70			
G2	4.14	.68	1,480.03			
G3	4.15	.32	1,475.57			
G4	3.45	.57	891.52			
G5*	3.81	.00	891.24			
G6	6.06	.00	871.45			
G7	3.90	.00	816.51			
G8*	7.50	.00	855.39			
G9	4.64	1.25	337.76			
G10	6.55	.00	617.37			
G11B	5.17	1.28	1,137.43			
G11C	3.46	.00	1,433.06			
G11D	5.59	1.31	1,430.65			
G12	4.29	.57	1,370.55			
G13	4.07	.90	1,201.35			
G14	6.73	.00	867.75			
G15B	4.29	.47	1,292.36			
G15C	7.30	1.44	938.86			
G15D	4.12	.00	780.40			
G16A	5.24	1.87	1,488.65			
G16B	5.88	1.24	1,495.32			
G17	4.30	1.72	1,487.76			
G18	7.38	1.81	1,487.13			
G19B	3.49	.58	934.30			
G19C*	0.00	.00	1,226.00			
G19D	1.37	.00	878.03			

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[1] Column heading definitions may be found at end of table.

*[5] Had they been paid at the time of validation.

NON-RECIPIENTS

Criterion	Of Number Corrected, Percent Became Rejected	Percent Non-Recipients Did Not Correct	Average Award*[5]			
EPM GROUPS						
G20	3.73	.00	1,385.03			
G21	2.40	1.57	776.39			
G22	2.17	2.13	630.30			
G23E	4.44	1.10	722.80			
G23F	5.53	1.49	922.52			
G23G	1.92	.95	866.23			
G23H	3.69	1.73	652.34			
G23I	4.57	.76	617.73			
G23J	2.38	1.18	1,317.02			
G24*	0.00	2.94	920.19			
G25A*	5.00	4.76	376.00			
G25B	8.00	1.96	426.49			
G26B	3.88	1.13	1,497.68			
G26C	5.94	.42	1,487.28			
G26D	3.25	.34	1,486.74			
G27	2.74	.72	1,032.97			
G28	5.54	.52	1,487.40			
G29	3.37	1.89	1,486.74			
G30	4.50	1.48	1,488.84			
G31	4.96	1.57	1,483.27			
G32	5.02	1.17	1,484.56			
G33	4.85	1.26	1,482.82			
G34	7.02	1.16	1,049.27			
G35	8.47	.00	1,055.04			

RANDOM SAMPLE

NON-RECIPIENTS

Criterion	Of Number Corrected, Percent Because Rejected	Percent Non-Recipients Did Not Correct	Average Award*5			
EPI GROUPS						
G36	3.66	.61	782.19			
G37	3.60	1.11	974.15			
OTHER GROUPS TO TEST						
OTHER1A	3.56	1.59	756.39			
OTHER1B	5.27	.63	1,092.86			
OTHER2A	2.11	.00	1,051.14			
OTHER2B	2.33	1.15	1,077.06			
OTHER2C	2.94	2.06	1,250.99			
OTHER2D	5.24	1.13	993.82			
OTHER3A	4.65	.52	1,310.55			
OTHER3B	4.67	.61	341.01			
OTHER3C	4.62	1.09	1,341.34			
OTHER3D	3.57	.91	344.04			
OTHER4A	4.10	.89	834.93			
OTHER4B	2.61	.62	1,209.04			

NON-RECIPIENTS[1]

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC GROUPS				
A1	466	98.07	24.07	974.36
A2	192	98.96	34.21	831.45
A3	118	100.00	19.49	1,475.65
A4*	34	97.06	21.21	758.29
A5	295	100.00	3.05	937.22
A6	601	99.00	8.57	1,148.69
A7	619	99.19	35.02	671.50
A8	319	99.37	37.22	647.09
A9	295	98.64	25.77	1,091.13
A10	89	100.00	28.09	701.32
A11	94	98.94	31.18	703.45
A12	614	99.35	16.72	1,104.84
A13	188	98.40	16.76	692.94
A14	502	99.60	41.64	606.40
A15	864	98.84	40.98	513.45
A16	84	100.00	10.71	1,237.11
A17*	3	100.00	0.00	NA[2]
A18*	2	100.00	0.00	NA
A19*	0	0.00	0.00	0.00
A20	296	98.65	40.75	432.80
A21	238	99.16	36.44	477.99
B	619	99.35	33.66	671.15
C	201	98.51	26.77	787.81
D	270	98.89	32.21	763.41
E	374	100.00	28.34	768.19
F	360	99.72	3.62	5,165.92
G*	4	100.00	50.00	251.50

[1] Column heading definitions may be found at end of table.

[2] Not applicable.

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC GROUPS				
A1I1	62	100.00	17.74	1,297.55
A1I2	98	95.92	21.28	1,422.50
A1I3	306	98.37	26.25	815.90
A2I1*	16	100.00	12.50	232.00
A2I2*	20	100.00	10.00	1,288.50
A2I3	156	98.72	39.61	836.11
A2II1	154	98.70	30.26	767.83
A2II2	38	100.00	50.00	985.47
A3I1	83	100.00	22.89	1,521.00
A3I2*	33	100.00	12.12	1,260.25
A3I3*	2	100.00	0.00	NA
A3II1*	27	100.00	11.11	2,435.33
A3II2*	31	100.00	25.81	1,302.50
A3II3	60	100.00	20.00	1,351.17
A3III1*	9	100.00	33.33	2,312.00
A3III2	109	100.00	18.35	1,350.20
A5I1	82	100.00	2.44	656.50
A5I2	157	100.00	3.18	923.20
A5I3	56	100.00	3.57	1,253.00
A5II1*	23	100.00	4.35	991.00
A5II2	272	100.00	29.41	930.50
A5III1*	3	100.00	0.00	NA
A5III2	292	100.00	3.08	937.22
A6I1	74	97.30	11.11	1,560.75
A6I2	527	99.24	8.22	1,072.00
A6II1	331	99.40	9.73	1,020.00
A6II2	269	98.51	7.17	1,365.42

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC SPLITS				
A6III1	524	98.85	4.63	1,120.22
A6III2	77	100.00	35.07	1,252.18
A6IV1	31	100.00	12.90	1,370.00
A6IV2	570	98.95	8.33	1,129.85
A6V1*	36	100.00	36.11	1,335.38
A6V2	565	98.94	6.80	1,084.82
A7I1	200	100.00	31.00	616.60
A7I2	419	98.81	36.96	693.75
A7II1*[3]	--	--	--	--
A7II2	619	99.19	35.01	671.59
A7III1	296	99.32	38.44	621.12
A7III2	323	99.07	31.88	727.31
A8I1	73	100.00	30.14	469.23
A8I2	245	99.18	39.10	681.70
A8II1*[3]	--	--	--	--
A8II2	319	99.37	37.22	647.09
A8III1	187	99.47	40.86	730.00
A8III2	132	99.24	32.06	497.05
A9I1	163	98.16	30.63	914.71
A9I2	107	99.07	19.81	1,709.62
A9I3*	25	100.00	20.00	222.40
A9II1*[3]	--	--	--	--
A9II2	295	98.64	25.77	1,091.13
A9III1	60	96.67	25.86	1,296.73
A9III2	235	99.15	25.75	1,039.73

*[3] Compute edits won't allow.

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC SPLITS				
A10I1*	46	100.00	34.78	564.44
A10I2*	34	100.00	26.47	944.67
A10I3*	9	100.00	0.00	NA
A10II1*[3]	--	—	—	—
A10II2	89	100.00	28.09	701.32
A10III1*	24	100.00	50.00	789.33
A10III2	65	100.00	20.00	620.08
A12I1	141	99.29	25.71	1,043.22
A12I2	316	99.05	15.97	1,235.38
A12I3	147	100.00	10.20	850.47
A12II1	111	99.10	19.09	1,904.38
A12II2	503	99.40	16.20	897.56
A12III1	289	98.62	16.49	1,291.64
A12III2	321	100.00	16.51	908.02
A12IV1	415	99.28	6.55	1,647.47
A12IV2	134	99.25	34.59	953.13
A12IV3	65	100.00	44.62	840.10
A13I1	122	98.36	19.17	598.78
A13I2*	28	96.43	18.52	1,411.40
A13I3*	38	100.00	7.90	217.33
A13II1	140	98.57	18.84	742.12
A13II2	48	97.92	10.64	437.20
A13III1	80	97.50	23.08	724.39
A13III2	108	99.07	12.15	649.39
A14I1	266	99.62	42.48	594.25

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC SPLITS				
A14I2	182	99.45	40.33	436.37
A14II1	481	99.58	4.38	615.41
A14II2	6	100.00	16.67	66.00
A14II3*[4]	0	0.00	0.00	0.00
A15I1	460	98.70	38.63	405.68
A15I2	346	98.84	44.15	569.35
A15II1	841	94.05	2.91	522.22
A15II2*	10	93.27	11.11	182.00
A5II3*[4]	0	0.00	0.00	0.00
FI1	318	99.69	3.47	5,934.18
FI2*	36	100.00	5.56	940.50
FII1	185	99.46	3.26	10,366.70
FII2	175	100.00	4.00	708.10
FIII1	149	99.33	2.70	824.50
FIII2	211	100.00	4.27	7,095.44
EPM GROUPS				
G1	131	98.47	24.03	298.29
G2	86	100.00	23.26	498.85
G3	242	99.59	26.97	803.88
G4	147	99.32	54.79	577.89
G5	83	97.59	41.98	577.97
G6	83	98.80	43.90	624.22
G7	51	100.00	54.90	611.50

*[4] No members.

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
EPM GROUPS				
G8	38	100.00	36.84	677.21
G9	79	98.73	47.44	552.00
G10	134	100.00	37.31	730.18
G11B	73	100.00	28.77	465.57
G11C	96	100.00	12.50	621.83
G11D	133	98.50	13.74	519.67
G12	105	98.10	12.62	560.77
G13	255	100.00	24.70	401.11
G14	51	100.00	37.25	694.47
G15B	184	98.91	20.88	488.47
G15C	57	94.74	40.74	418.95
G15D	85	97.65	32.53	825.93
G16A	132	100.00	26.52	929.37
G16B	339	99.12	15.48	1,070.31
G17	386	98.45	13.95	761.25
G18	150	99.33	32.21	552.44
G19B	115	99.13	53.51	696.77
G19C*	2	100.00	100.00	1,833.50
G19D	84	98.81	46.99	478.00
G20	80	98.75	48.10	554.37
G21	71	95.77	45.59	420.06
G22	57	100.00	36.84	430.14
G23D	15	100.00	40.00	813.33
G23F	390	99.23	40.05	571.71

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
PEC GROUPS				
G23G	32	100.00	37.50	455.75
G23H	221	100.00	45.70	622.97
G23I	90	100.00	32.22	599.24
G23J	23	95.65	31.82	541.57
G24	139	100.00	49.67	677.57
G25A*	7	100.00	71.43	640.80
G25B	47	97.87	34.78	1,169.81
G26B	228	100.00	13.16	1,535.60
G26C	233	100.00	4.29	724.30
G26D	200	100.00	5.26	958.36
G27	193	97.41	23.40	627.14
G28	101	99.01	5.00	457.80
G29*	18	100.00	27.78	1,140.40
G30	149	99.33	12.16	4,381.56
G31	129	99.22	9.38	2,042.58
G32	198	98.99	6.12	1,279.25
G33	146	99.32	12.41	865.17
G34	44	100.00	45.46	1,230.35
G35*	5	100.00	0.00	NA
G36*	16	100.00	25.00	937.50
G37	253	98.81	34.40	835.55

NON-RECIPIENTS

Criterion	Number Non-Recipients	Percent Non-Recipients Corrected	Of Number Corrected, Percent With EI Change	Average Effective EI Change
OTHER GROUPS TO TEST				
OTHER2A*	7	100.00	14.29	469.00
OTHER2B*	8	87.50	28.57	1,609.50
OTHER2C*	45	100.00	17.77	584.13
OTHER2D	127	98.43	16.00	656.00
OTHER3A	1,180	99.41	31.46	646.30
OTHER3B	227	99.12	42.67	704.60
OTHER3C	4,523	99.03	22.30	788.60
OTHER3D	487	99.79	45.89	547.74

NON-RECIPIENTS[1]

PEC GROUPS	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, & Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
A1	86.36	1,072.74	13.64	351.27	75.93	9.85
A2	80.00	967.27	20.00	288.15	65.79	12.11
A3	100.00	1,475.65	0.00	NA	80.51	8.47
A4*	71.43	811.00	28.57	626.50	78.79	3.03
A5	100.00	937.22	0.00	NA	96.95	1.02
A6	70.59	1,284.00	29.41	823.93	91.43	2.02
A7	89.30	707.89	10.70	367.70	64.98	12.87
A8	89.83	668.16	10.17	460.92	62.78	14.51
A9	89.33	1,173.85	10.67	398.38	74.23	11.68
A10	88.00	780.14	12.00	123.33	71.91	11.24
A11	79.31	811.13	20.69	290.67	68.82	7.53
A12	82.35	1,241.46	17.65	467.50	83.28	6.72
A13	80.65	750.40	19.35	453.50	83.24	5.95
A14	87.50	651.06	12.50	293.81	58.36	12.60
A15	85.43	555.89	14.57	264.67	59.02	11.71
A16	77.78	1,371.29	22.22	767.50	89.29	1.19
A17*	0.00	NA	0.00	NA	0.00	0.00
A18*	0.00	NA	0.00	NA	0.00	0.00
A19*	0.00	NA	0.00	NA	0.00	0.00
A20	69.75	523.47	30.25	223.75	59.25	9.93
A21	61.63	597.57	38.37	314.85	63.56	8.05
B	83.57	751.98	16.43	259.85	66.24	11.71
C	86.79	861.50	13.21	303.57	73.23	8.08
D	83.72	876.63	16.28	181.14	67.79	11.61
E	83.02	858.83	16.98	325.06	71.66	11.50
F	100.00	5,165.92	0.00	NA	96.38	0.84
G*	100.00	251.50	0.00	NA	50.00	0.00

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[1] Column heading definitions may be found at end of table.

NON-RECIPIENTS

PEC SPLITS	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Become Ineligible
A1I1	90.91	1,423.80	9.09	35.00	82.26	8.06
A1I2	100.00	1,422.50	0.00	NA	78.72	10.64
A1I3	82.28	911.11	17.72	373.86	73.75	9.97
A2I1*	100.00	732.00	0.00	NA	87.50	0.00
A2I2*	50.00	2,413.00	50.00	164.00	90.00	5.00
A2I3	80.33	967.79	19.67	298.50	60.38	14.29
A2II1	80.43	885.11	19.57	295.67	69.74	9.87
A2II2	78.95	1,169.93	21.05	293.75	50.00	21.05
A3I1	100.00	1,521.00	0.00	NA	77.11	10.84
A3I2*	100.00	1,260.25	0.00	NA	87.88	3.03
A3I3*	0.00	NA	0.00	NA	0.00	0.00
A3II1*	100.00	2,435.33	0.00	NA	88.89	11.11
A3II2*	100.00	1,302.50	0.00	NA	74.19	6.45
A3II3	100.00	1,351.17	0.00	NA	80.00	8.33
A3III1*	100.00	2,312.00	0.00	NA	66.67	22.22
A3III2	100.00	1,350.20	0.00	NA	81.65	7.34
A5I1	100.00	656.50	0.00	NA	97.56	0.00
A5I2	100.00	923.20	0.00	NA	96.92	1.27
A5I3	100.00	1,253.00	0.00	NA	96.43	1.79
A5II1*	100.00	991.00	0.00	NA	95.65	0.00
A5II2	100.00	930.50	0.00	NA	70.59	1.10
A5III1*	0.00	NA	0.00	NA	100.00	0.00
A5III2	100.00	937.22	0.00	NA	96.92	1.03
A6I1	75.00	1,819.00	25.00	786.00	88.89	4.17
A6I2	69.77	1,177.00	30.23	829.77	91.78	1.72
A6II1	65.63	1,117.52	34.38	833.82	90.27	1.82
A6II2	78.95	1,517.07	21.05	796.75	92.83	2.26

NON-RECIPIENTS

	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
PEC SPLITS						
A6III1	79.17	1,229.68	20.83	867.17	95.37	1.74
A6III2	62.96	1,477.63	37.04	651.00	64.93	3.90
A6IV1	50.00	2,449.50	50.00	290.50	87.10	6.45
A6IV2	72.34	1,215.44	27.66	906.00	91.67	1.77
A6V1*	38.46	1,820.20	61.54	1,032.38	63.89	8.33
A6V2	81.58	1,197.52	18.42	585.71	93.20	1.61
A7I1	85.48	669.15	14.52	307.11	69.00	7.50
A7I2	90.85	722.66	9.15	406.64	63.04	15.46
A7II1*[3]	--	--	--	--	--	--
A7II2	89.30	-707.89	10.70	367.70	64.99	12.97
A7III1	94.69	645.00	5.31	141.67	61.59	15.65
A7III2	83.33	783.28	16.67	447.47	68.12	10.31
A8I1	77.27	482.71	22.73	695.40	60.96	6.85
A8I2	92.63	712.67	7.37	293.43	60.90	16.46
A8II1*[3]	--	--	--	--	--	--
A8II2	89.83	668.16	10.17	460.92	62.78	14.51
A8III1	93.42	740.69	6.58	578.20	59.14	20.43
A8III2	83.33	521.03	16.67	377.14	61.94	6.11
A9I1	85.71	995.64	14.29	429.14	69.37	12.50
A9I2	100.00	1,709.62	0.00	NA	80.19	13.21
A9I3*	80.00	232.25	20.00	183.00	80.00	0.00
A9II1*[3]	--	--	--	--	--	--
A9II2	89.33	1,173.85	10.67	398.37	74.23	11.68
A9III1	80.00	1,435.67	20.00	741.00	74.14	12.07
A9III2	91.67	1,116.73	8.33	192.00	74.25	11.59

NON-RECIPIENTS

PEC SPLITS	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
A10I1*	81.25	665.23	18.75	123.33	65.22	13.04
A10I2*	100.00	944.67	0.00	NA	73.53	11.76
A10I3*	0.00	0.00	0.00	NA	0.00	0.00
A10II1*[2]	--	--	--	--	--	--
A10II2	88.00	780.14	12.00	123.33	71.91	11.24
A10III1*	91.67	845.19	8.33	175.00	50.00	20.83
A10III2	84.62	715.00	15.38	97.50	80.00	7.69
A12I1	77.78	1,199.59	22.22	529.89	74.29	10.00
A12I2	94.00	1,294.91	6.00	302.67	84.03	7.35
A2I3	60.00	1,122.78	40.00	442.00	88.90	2.72
A12II1	76.19	2,399.19	23.81	321.00	80.91	10.91
A12II2	83.95	969.06	16.05	523.54	83.90	5.80
A12III1	82.98	1,460.62	17.02	467.88	83.51	6.67
A12III2	81.13	1,010.63	18.87	466.80	83.49	6.54
A12IV1	100.00	1,647.47	0.00	NA	93.45	2.67
A12IV2	76.09	1,152.31	23.91	319.36	65.41	10.53
A12IV3	75.86	884.77	24.14	699.71	55.38	24.62
A13I1	73.91	650.06	26.09	453.50	60.93	6.67
A13I2*	100.00	1,411.40	0.00	NA	81.48	11.11
A13I3*	100.00	217.33	0.00	NA	92.10	0.00
A13II1	88.46	789.74	11.54	377.00	81.16	7.25
A13II2	40.00	298.00	60.00	530.00	89.36	2.13
A13III1	88.89	752.56	11.11	499.00	76.92	8.97
A13III2	69.23	746.56	30.77	430.75	87.85	3.74
A14I1	89.38	641.55	10.62	196.17	57.52	12.45

NON-RECIPIENTS

	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, & Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
PEC SPLITS						
A14I2	84.93	463.11	15.07	308.85	59.67	9.94
A14II1	90.48	656.16	9.52	311.50	95.62	12.94
A14II2	0.00	NA	100.00	66.00	83.33	0.00
A14II3*[4]	0.00	0.00	0.00	0.00	0.00	0.00
A15I1	84.00	439.96	16.00	225.71	61.37	8.81
A15I2	84.77	614.17	15.23	312.09	55.85	15.20
A15II1	100.00	563.90	0.00	273.88	97.09	11.91
A15II2*	100.00	182.00	0.00	NA	88.89	0.00
A15II3*[4]	0.00	0.00	0.00	0.00	0.00	0.00
FI1	100.00	5,934.18	0.00	NA	96.53	0.63
FI2*	100.00	940.50	0.00	NA	94.44	2.78
FII1	100.00	10,366.70	0.00	NA	96.74	0.54
FII2	100.00	708.10	0.00	NA	96.00	1.14
FIII1	100.00	824.50	0.00	NA	97.30	0.68
FIII2	100.00	7,095.44	0.00	NA	95.73	0.95
EPM GROUPS						
G1	77.42	360.38	22.58	85.43	75.97	0.78
G2	100.00	498.85	0.00	NA	76.74	2.33
G3	84.62	920.82	15.38	160.70	73.03	5.39
G4	76.25	675.66	23.75	264.00	45.21	19.18
G5	79.41	641.67	20.59	332.29	58.02	14.81
G6	75.00	737.81	25.00	283.44	56.10	13.41
G7	96.43	633.52	3.57	17.00	45.10	15.69

NON-RECIPIENTS

EPB GROUPS	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
G8	92.86	726.15	7.14	41.00	63.16	10.53
G9	86.49	548.09	13.51	577.00	52.56	33.33
G10	86.00	753.86	14.00	584.71	62.69	19.40
G11B	80.95	526.71	19.05	205.75	71.23	5.48
G11C	83.33	662.70	16.67	417.50	87.50	2.08
G11D	66.67	497.33	33.33	504.33	86.20	0.76
G12	61.54	642.00	38.46	430.80	87.38	1.94
G13	79.37	398.44	20.63	411.39	75.29	5.49
G14	78.95	832.33	21.05	177.50	62.75	11.76
G15B	84.21	545.16	15.79	170.17	79.12	5.49
G15C	81.82	453.06	18.18	265.50	59.26	7.41
G15D	88.89	884.04	11.11	361.00	67.47	13.25
G16A	74.29	1,220.58	25.71	88.11	73.48	6.82
G16B	100.00	1,070.31	0.00	NA	84.52	4.46
G17	90.57	834.33	9.43	59.60	86.05	3.16
G18	89.58	610.72	10.42	51.20	67.79	2.68
G19B	70.49	701.33	29.51	685.89	46.48	16.67
G19C*	100.00	1,833.50	0.00	NA	0.00	100.00
G19D	66.67	573.73	33.33	286.54	53.01	9.64
G20	78.95	684.33	21.05	67.00	51.90	6.33
G21	61.29	405.42	38.71	443.25	54.41	10.29
G22	95.24	434.50	4.76	343.00	63.16	24.56
G23D	100.00	813.33	0.00	NA	60.00	33.33
G23F	71.61	623.68	28.39	440.59	59.95	12.92

NON-RECIPIENTS

EPM GROUPS	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, & Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
G23G	91.67	432.55	8.33	711.00	62.50	15.63
G23H	81.19	696.65	18.81	305.00	54.30	20.36
G23I	86.21	616.68	13.79	490.25	67.80	13.33
G23J	71.43	697.00	28.57	153.00	68.20	4.55
G24	89.86	727.40	10.14	236.14	50.40	19.42
G25A*	100.00	640.00	0.00	NA	28.60	57.14
G25B	100.00	1,169.81	0.00	NA	65.22	26.09
G26B	100.00	1,535.60	0.00	NA	86.84	5.79
G26C	100.00	724.30	0.00	NA	95.71	0.43
G26D	100.00	958.36	0.00	NA	94.74	1.50
G27	72.73	779.06	27.27	224.67	76.60	7.98
G28	100.00	457.80	0.00	NA	95.00	0.00
G29*	100.00	1,140.40	0.00	NA	72.22	11.11
G30	100.00	4,381.56	0.00	NA	87.84	4.73
G31	100.00	2,042.58	0.00	NA	90.62	5.47
G32	100.00	1,279.25	0.00	NA	93.88	3.06
G33	100.00	865.17	0.00	NA	87.59	2.07
G34	90.00	1,354.28	10.00	115.00	54.54	20.45
G35*	0.00	NA	0.00	NA	100.00	0.00
G36*	100.00	937.50	0.00	NA	75.00	12.50
G37	82.56	906.30	17.44	500.67	65.60	16.40

NON-RECIPIENTS

	Of Number Corrected With EI Change, % Raising EI	Average Amount EI is Raised	Of Number Corrected With EI Change, % Lowering EI	Average Amount EI is Lowered	Of Number Corrected, % With No EI Change	Of Number Corrected, % Became Ineligible
OTHER GROUPS TO TEST						
OTHER2A*	100.00	469.00	0.00	NA	85.71	0.00
OTHER2B*	100.00	1,609.50	0.00	NA	71.43	14.29
OTHER2C*	87.50	635.14	12.50	227.00	82.23	8.88
OTHER2D	75.00	708.40	25.00	498.30	84.00	4.80
OTHER3A	82.93	726.44	17.07	257.02	69.54	7.50
OTHER3B	89.58	735.66	10.42	437.50	57.33	31.56
OTHER3C	84.28	886.77	15.72	262.12	77.70	5.74
OTHER3D	73.09	518.07	26.91	628.33	54.11	2.09

NON-RECIPIENTS[1]

	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*[5]
PEC GROUPS			
A1	3.00	1.93	1,252.47
A2	3.16	1.04	1,202.01
A3	3.39	0.00	1,484.41
A4*	0.00	2.94	1,359.00
A5	4.07	0.00	1,486.05
A6	5.71	1.00	1,456.17
A7	3.91	0.81	1,009.63
A8	4.73	0.63	1,009.63
A9	2.25	1.36	1,265.63
A10	3.09	0.00	1,204.11
A11	4.30	1.06	1,152.98
A12	4.10	0.65	1,380.21
A13	4.86	1.60	1,372.31
A14	5.40	0.40	1,134.89
A15	3.16	1.16	1,072.58
A16	4.76	0.00	1,351.52
A17*	0.00	0.00	809.33
A18*	0.00	0.00	1,488.00
A19*	0.00	0.00	0.00
A20	4.11	1.35	1,094.99
A21	4.24	0.84	1,117.61
B	3.41	0.65	1,050.18
C	3.54	1.49	1,191.75
D	3.75	1.11	1,050.58
E	4.81	0.00	1,173.44
F	9.47	0.28	1,486.40
G*	0.00	0.00	1,219.50

[1] Column heading definitions may be found at end of table.

*[5] Had they been paid at the time of validation.

NON-RECIPIENTS

PEC SPLITS	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*[5]
A1I1	0.00	0.00	1,378.84
A1I2	2.13	4.08	1,340.40
A1I3	3.99	1.63	1,198.87
A2I1*	0.00	0.00	1,300.63
A2I2*	10.00	0.00	1,400.00
A2I3	2.60	1.28	1,166.51
A2II1	2.63	1.30	1,240.95
A2II2	5.26	0.00	1,044.21
A3I1	4.82	0.00	1,482.89
A3I2*	0.00	0.00	1,488.00
A3I3*	0.00	0.00	1,488.00
A3II1*	0.00	0.00	1,488.00
A3II2*	6.45	0.00	1,488.00
A3II3	3.33	0.00	1,480.93
A3III1*	0.00	0.00	1,440.89
A3III2	3.67	0.00	1,488.00
A5I1	2.44	0.00	1,488.00
A5I2	3.82	0.00	1,484.33
A5I3	7.14	0.00	1,488.00
A5II1*	8.70	0.00	1,488.00
A5II2	3.68	0.00	1,485.88
A5III1*	33.33	0.00	1,488.00
A5III2	3.77	0.00	1,486.03
A6I1	6.94	2.70	1,423.03
A6I2	5.54	0.76	1,460.85
A6II1	6.08	0.60	1,462.72
A6II2	5.28	1.49	1,448.01

NON-RECIPIENTS

	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*[5]
PLC SPLITS			
A6III1	5.60	1.15	1,455.59
A6III2	6.49	0.00	1,460.10
A6IV1	9.68	0.00	1,347.03
A6IV2	5.50	1.05	1,462.13
A6V1*	5.56	0.00	1,279.11
A6V2	5.72	1.06	1,467.51
A7I1	3.00	0.00	1,219.69
A7I2	4.35	1.19	1,024.62
A7II1*[3]	--	--	--
A7II2	3.91	0.81	1,097.85
A7III1	3.06	0.68	1,105.53
A7III2	4.69	0.93	1,154.54
A8I1	6.95	0.00	1,192.88
A8I2	4.12	0.82	953.69
A8II1*[3]	--	--	--
A8II2	4.73	0.63	1,009.63
A8III1	5.91	0.53	901.34
A8III2	3.05	0.76	1,163.37
A9I1	1.25	1.84	1,223.38
A9I2	4.72	0.93	1,314.43
A9I3*	8.00	0.00	1,333.50
A9II1*[3]	--	--	--
A9II2	3.09	1.36	1,265.63
A9III1	3.45	3.33	1,145.55
A9III2	3.00	0.95	1,295.52

NON-RECIPIENTS

	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*5
PEC GROUPS			
A10I1*	0.00	0.00	1,095.65
A10I2*	2.94	0.00	1,283.41
A10I3*	11.11	0.00	1,458.89
A10II1*3	--	--	--
A10II2	2.25	0.00	1,204.11
A10III1*	0.00	0.00	1,074.25
A10III2	3.09	0.00	1,252.06
A12I1	4.29	0.71	1,299.17
A12I2	3.51	0.95	1,390.09
A12I3	5.44	0.00	1,434.99
A12II1	4.55	0.90	1,378.97
A12II2	4.00	0.60	1,390.49
A12III1	3.16	1.38	1,393.66
A12III2	4.98	0.00	1,366.80
A12IV1	4.37	0.72	1,480.46
A12IV2	1.50	0.75	1,431.10
A12IV3	7.69	0.00	636.00
A13I1	5.83	1.64	1,317.27
A13I2*	3.70	3.57	1,485.26
A13I3*	2.63	0.00	1,467.32
A13II1	4.35	1.43	1,369.54
A13II2	6.38	2.08	1,380.29
A13III1	2.56	2.50	1,302.74
A13III2	6.54	0.93	1,422.56
A14I1	4.15	35.25	1,194.16

NON-RECIPIENTS

	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*^{5}
PEC SPLITS			
A14I2	8.29	34.06	1,040.28
A14II1	5.43	37.01	1,128.51
A14II2	0.00	58.33	1,307.00
A14II3*^{4}	0.00	0.00	0.00
A15I1	4.63	39.80	1,131.16
A15I2	1.75	36.51	981.38
A15II1	3.25	39.55	1,073.93
A15II2*	0.00	60.00	1,014.60
A15II3*^{4}	0.00	0.00	0.00
FI1	9.46	0.31	1,486.19
FI2*	11.11	0.00	1,488.00
FII1	9.78	0.54	1,484.89
FII2	9.14	0.00	1,488.00
FIII1	9.46	0.67	1,484.13
FIII2	9.48	0.00	1,488.00
EH GROUPS			
G1	0.78	1.53	1,477.58
G2	3.49	0.00	1,478.72
G3	4.15	0.41	1,474.08
G4	3.42	0.68	773.26
G5	1.23	2.41	854.14
G6	1.22	1.20	858.53
G7	1.96	0.00	893.65

PEC SAMPLE

NON-RECIPIENTS

EPI GROUPS	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award*[5]
G8	10.53	0.00	870.59
G9	5.13	1.27	374.73
G10	6.72	0.00	730.10
G11B	4.11	0.00	1,228.52
G11C	4.17	0.00	1,470.83
G11D	4.58	1.50	1,423.29
G12	3.88	1.90	1,397.83
G13	3.53	0.00	1,232.78
G14	9.80	0.00	1,068.75
G15B	3.85	1.09	1,322.72
G15C	1.85	5.26	1,138.07
G15D	0.02	2.35	935.83
G16A	3.03	0.00	1,489.80
G16B	3.87	0.88	1,489.56
G17	9.21	1.55	1,479.97
G18	3.36	0.67	1,490.67
G19B	4.39	0.87	1,002.68
G19C*	0.00	0.00	776.00
G19D	1.20	1.19	1,016.45
G20	0.00	1.25	1,352.51
G21	2.94	4.23	718.96
G22	5.26	0.00	561.96
G23D	6.67	0.00	926.00
G23F	5.68	0.77	956.04

NON-RECIPIENTS

	% Number Corrected, Because Rejected	% Non-Recipients Did Not Correct	Average Award$
EPI GROUPS			
G23G	3.13	0.00	[illegible]
G23H	1.81	0.00	710.92
G23I	2.22	0.00	701.56
G23J	[illegible]	4.25	[illegible]
G24	0.72	0.00	879.31
G25A*	0.00	0.00	[illegible]
G25B	[illegible]	2.17	[illegible]
G26A	[illegible]	0.00	[illegible]
G26C	[illegible]	0.00	[illegible]
G26D	[illegible]	0.00	[illegible]
G27	2.13	2.59	[illegible]
G28	[illegible]	0.00	[illegible]
G29*	[illegible]	0.00	[illegible]
G30	2.03	0.67	[illegible]
G31	3.91	0.78	1,486.45
G32	3.57	1.01	[illegible]
G33	2.76	0.69	1,403.21
G34	[illegible]	[illegible]	1,007.91
G35*	0.00	0.00	1,110.90
G36*	0.00	0.00	849.00
G37	2.90	1.19	1,010.67

NON-RECIPIENTS

	Of Number Corrected, % Became Rejected	% Non-Recipients Did Not Correct	Average Award
OTHER GROUPS TO TEST			
OTHER2A*	[illegible]	0.00	1,[illegible]
OTHER2B*	14.29	12.50	1,4[illegible].00
OTHER2C*	[illegible]	[illegible]	1,[illegible]
OTHERPT	4.[illegible]	1.57	1,3[illegible].24
OTHER3A	3.[illegible]	[illegible]	1,2[illegible]
OTHER3B	[illegible]	[illegible]	[illegible]
OTHER3C	[illegible]	[illegible]	1,[illegible]
OTHER3D	[illegible].12	0.21	[illegible]

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Non-Recipient Table Heading Definitions

Number Non-Recipients - Those applicants chosen by a criterion (PEC, PEC Split, EPM or Other) who do not receive an award after validation.

Percent Non-Recipients Corrected - Those applicants who change their responses as a result of validation, listed as a percentage of number non-recipients.

Of Number Corrected, Percent With EI Change - Those applicants who change their responses and change their EI after validation, listed as a percentage of non-recipients corrected.

Average Effective EI Change - Measures the sum of the absolute value of EI change for non-recipients divided by the number of non-recipients with EI change.

Of Number Corrected With EI Change, % Raising EI - The number of non-recipients raising EI divided by the number of non-recipients correcting with EI change.

Average Amount EI is Raised - The sum of positive EI change divided by the number of non-recipients with EI change.

Of Number Corrected With EI Change, % Lowering EI - The number of non-recipients lowering EI divided by the number of non-recipients correcting with EI change.

Average Amount EI is Lowered - The sum of negative EI change divided by the number of non-recipients with EI change.

Of Number Corrected, Percent With No EI Change - Those applicants who change their responses as a result of validation, and those changes do not cause a change in EI, listed as a percentage of number corrected.

Of Number Corrected, Percent Became Ineligible - Those applicants who change their responses as a result of validation and their EI is raised high enough to put them into the ineligible range, listed as a percentage of number non-recipients corrected.

Of Number Corrected, Percent Became Rejected - Those applicants who change some of their responses as a result of validation, now meet a reject reason and are rejected, listed as a percentage of number non-recipients corrected.

Percent Non-Recipients Did Not Correct - Those applicants who do not change their responses as a result of validation, listed as a percentage of number non-recipients.

Average Award - A hypothetical award, calculated from information given at the time of validation, had the Non-Recipient Sample been paid at the time of validation.

GUIDE TO READING THE OVERLAP TABLES

The two parts to this table measure the extent to which individual PEC Sample EPM Criterion and the existing PEC identify the same applicants. Overlap Table (a) looks at EPM criterion Groups in the PEC Sample which match PEC Groups. Note that on Overlap table (a) not all applicants meeting EPM criteria will appear on this table, because use of the PEC Sample excludes some applicants who meet EPM Criteria. The rows in this table represent percentages of the EPM group applicants who match PEC's. Because of the way in which Pre-established Criteria are defined, an applicant may meet more than one PEC. Therefore, the rows in Overlap table (a) will report over 100% of the population for the EPM group.

Overlap Table (b) looks at PEC Groups which match EPM Groups. Here a specific PEC matches a specific EPM. The rows in Overlap Table (b) represent percentages of the PEC Groups applicants who match EPM groups. Because by definition an applicant may only meet one EPM, the rows in this table will add up to 100%.

To read these tables, note that the top row of Overlap Table (a) lists the PEC groups A1-A11, Page 4 lists PEC groups A11-21, and Group B. Groups C-G appear across the top of page 7. The far left column on the table lists the EPM criterion groups. To follow a criterion through this table, remember that the reader will need to skip through a couple of pages to find its next cross-tabulation. The top row of Overlap Table (b) lists the EPM criterion groups, G1-G11B on page 1, G11C-G17 on page 2, G18-G23H on page 3, G23I-G29 on page 4 and, G30-G37 on the fifth and last page. The far left column on this table lists the PEC groups.

To follow a specific criterion through these tables, for example PEC Group A1 on the Overlap Table (b), note that the first column indicates there were no applicants who met criterion A1 who also met EPM criterion G1. Follow the row to the end of the page (note the first overlap for A1 and an EPM criterion is at G11B: 1.38% of the applicants who met PEC A1 also met EPM criterion G11B), and turn to the next page to continue the examination of this specific criterion.

CVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPN GROUPS (a)

PEC--> EPN GROUPS	A1	A2	A3	A4 *	A5	A6	A7	A8	A9	A10	A11
G1	0.00	5.05	1.60	0.27	0.00	14.63	0.00	17.82	0.00	0.00	0.27
G2	0.00	21.86	7.91	0.00	0.00	4.65	0.00	39.07	0.00	0.00	2.33
G3	0.00	17.68	1.81	0.24	0.00	7.99	0.00	19.73	0.00	0.00	1.57
G4	0.00	5.88	0.00	0.00	0.00	0.65	0.00	4.74	0.00	0.00	0.82
G5	0.00	22.37	0.00	0.00	0.00	1.75	0.00	24.12	0.00	0.00	0.88
G6	0.00	8.47	0.00	0.00	0.00	0.00	0.85	16.10	0.00	0.00	0.85
G7	0.00	11.89	0.00	0.00	0.00	0.00	0.00	45.45	0.00	0.00	0.70
G8	0.00	13.27	0.00	0.00	0.00	0.00	0.00	47.79	0.00	0.00	1.77
G9	0.00	17.76	0.66	0.00	0.00	0.00	0.00	38.82	0.00	0.00	0.66
G10	0.00	5.66	0.00	0.00	0.00	0.00	0.00	61.13	0.00	0.00	0.75
G11B	9.80	0.00	3.43	0.00	0.00	5.88	38.73	0.00	0.00	0.00	1.47
G11C	13.04	0.00	1.63	0.00	0.00	61.96	0.57	0.00	0.00	0.00	0.00
G11D	1.17	0.00	0.29	0.00	0.00	45.45	0.29	0.00	0.00	0.00	0.00
G12	8.21	0.00	0.00	0.75	0.00	33.96	10.07	0.00	0.00	0.00	1.12
G13	7.87	0.00	1.03	0.52	0.00	25.81	15.61	0.00	0.00	0.00	1.16
G14	11.97	0.00	1.41	0.00	0.00	2.11	14.08	0.00	0.00	0.00	0.00
G15B	11.59	0.00	1.43	0.53	0.00	18.72	0.18	0.00	0.00	0.00	0.89
G15C	9.17	0.00	0.83	0.00	0.00	2.50	50.83	0.00	0.00	0.00	0.00
G15D	13.18	0.00	1.55	0.00	0.00	4.26	36.05	0.00	0.00	0.00	0.39
G16A	15.17	0.00	0.75	0.00	0.00	16.29	10.11	0.00	0.00	0.00	1.31
G16B	12.29	0.00	3.03	0.00	0.00	26.97	14.95	0.00	0.00	0.00	0.83
G17	3.50	0.00	0.82	1.86	0.00	32.51	2.38	0.15	0.00	0.00	1.41
G18	15.91	0.00	0.00	0.00	0.00	0.19	31.06	0.00	0.00	0.00	4.92
G19B	15.48	0.00	0.00	0.00	0.00	5.00	0.48	0.00	0.00	0.00	4.52
G19C*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G19D	5.84	0.00	0.00	0.34	0.00	0.00	0.69	0.00	0.00	0.00	1.37

*Less than one-half of one percent of sample population.

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (a)

PEC--> EPM GROUPS	A1	A2	A3	A4 *	A5	A6	A7	A8	A9	A10	A11
G20	15.65	0.00	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	1.74
G21	12.05	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	3.61
G22	18.62	0.53	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	4.26
G23E	0.99	0.00	0.00	0.00	0.00	0.99	22.77	0.99	0.00	0.00	0.99
G23F	5.27	0.00	0.51	0.36	0.00	2.60	11.62	0.14	0.00	0.00	0.65
G23G	1.54	0.00	0.00	0.00	0.00	0.00	16.92	1.54	0.00	0.00	0.77
G23H	0.23	0.00	0.00	0.12	0.00	0.00	9.01	0.35	0.00	0.00	1.50
G23I	22.92	0.26	0.00	0.00	0.00	0.00	14.36	0.77	0.00	0.00	1.03
G23J	36.29	0.00	0.00	0.00	0.00	0.00	23.39	0.00	0.00	0.00	1.61
G24	6.98	0.00	0.00	0.00	0.00	11.05	71.80	0.00	0.00	0.00	0.00
G25A*	17.65	0.00	0.00	0.00	0.00	0.00	70.59	0.00	0.00	0.00	0.00
G25B	7.63	0.00	0.00	0.00	0.00	0.00	67.80	0.00	0.00	0.00	0.00
G26B	14.57	0.00	8.26	0.00	13.04	0.87	0.00	0.00	25.65	0.00	1.52
G26C	0.44	0.66	0.44	1.10	3.53	0.00	0.00	0.00	0.44	2.21	0.00
G26D	2.78	2.27	1.77	0.76	59.09	0.00	0.00	0.00	2.53	6.31	0.00
G27	16.67	0.72	0.00	0.00	0.00	0.24	0.00	0.24	26.57	8.70	0.48
G28	0.58	0.29	0.87	0.58	2.02	0.00	0.00	0.00	0.58	0.00	0.58
G29*	5.88	3.92	0.00	0.00	0.00	0.00	0.00	0.00	9.80	0.00	0.00
G30	6.65	2.58	3.22	0.86	5.15	0.00	0.00	0.00	4.51	1.29	1.07
G31	11.60	4.10	4.44	0.69	7.85	0.00	0.00	0.00	9.90	3.75	0.34
G32	7.96	1.02	3.06	0.82	42.24	0.00	0.00	0.00	16.94	2.65	0.82
G33	8.54	1.71	2.47	0.95	35.10	0.00	0.00	0.00	7.78	1.52	0.38
G34	1.48	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G35*	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G36*	5.56	1.85	0.00	0.00	0.00	0.00	0.00	0.00	27.78	11.11	1.85
G37	14.69	1.82	0.33	0.33	0.00	0.00	0.00	0.00	26.57	6.44	0.66

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (a)

PEC-->	A1	A2	A3	A4 *	A5	A6	A7	A8	A9	A10	A11
OTHER GROUPS TO TEST											
OTHER2A*	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.67	0.00	0.00
OTHER2B*	23.81	0.00	0.00	0.00	4.76	0.00	0.00	0.00	4.76	0.00	0.00
OTHER2C*	2.25	0.00	1.12	1.12	2.25	3.37	0.00	0.00	0.00	0.00	2.25
OTHER2D	7.07	2.02	1.01	0.51	1.01	9.34	4.55	1.77	0.00	0.00	1.52
OTHER3A	0.00	12.42	1.03	0.15	2.30	4.10	0.03	19.61	0.03	4.10	1.00
OTHER3B	0.00	10.07	0.25	0.00	0.00	0.00	0.00	26.29	0.00	3.44	0.74
OTHER3C	9.35	0.01	1.22	0.44	4.90	11.30	9.50	0.07	3.94	0.01	1.15
OTHER3D	10.92	0.08	0.08	0.33	0.00	1.50	15.67	0.33	3.25	0.00	1.92

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (%)

PEC--> EPM GROUPS	A12	A13	A14	A15	A16	A17 *	A18 *	A19 *	A20	A21	F
G1	0.51	1.60	7.45	27.93	0.00	0.00	0.00	0.00	4.52	2.39	8.78
G2	10.70	3.26	1.86	5.12	0.00	0.00	0.00	0.00	0.47	0.93	15.35
G3	17.92	6.05	5.45	10.05	0.12	0.00	0.00	0.00	2.42	2.78	15.98
G4	4.41	1.47	8.82	36.27	0.00	0.00	0.00	0.00	6.05	5.56	28.27
G5	5.70	3.95	14.04	21.49	0.44	0.00	0.00	0.00	4.39	3.95	9.21
G6	2.54	0.85	0.85	1.69	0.00	0.00	0.00	0.00	0.85	0.00	0.00
G7	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	32.17
G8	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	1.77	30.97
G9	0.66	1.32	1.97	7.89	0.00	0.00	0.00	0.00	1.32	2.63	30.26
G10	1.51	0.00	3.02	12.08	0.00	0.00	0.00	0.00	1.59	2.26	19.97
G11B	4.41	1.96	8.82	16.67	0.00	0.00	0.00	0.00	4.90	2.94	8.82
G11C	6.52	0.00	7.07	0.00	1.63	0.00	0.00	0.00	1.09	1.63	6.52
G11D	5.28	1.47	8.21	20.82	0.88	0.00	0.00	0.00	7.33	4.69	5.87
G12	4.10	3.73	8.21	17.91	0.37	0.00	0.00	0.00	6.72	2.24	7.46
G13	7.10	1.68	7.23	11.35	0.13	0.00	0.00	0.00	5.42	2.58	15.87
G14	8.45	0.34	10.56	14.79	0.00	0.00	0.00	0.00	12.68	5.63	17.61
G15B	11.76	2.50	13.01	22.28	0.18	0.00	0.00	0.00	6.06	4.81	10.34
G15C	0.83	0.83	14.17	12.50	0.00	0.00	0.00	0.00	5.00	1.67	10.00
G15D	5.43	3.10	6.59	12.40	0.39	0.00	0.00	0.00	5.04	5.04	16.28
G16A	18.73	4.31	6.93	12.92	0.00	0.00	0.00	0.00	4.07	2.81	14.23
G16B	17.89	5.14	5.14	7.43	0.00	0.00	0.00	0.00	2.57	1.83	10.55
G17	22.99	4.39	8.93	14.36	0.52	0.07	0.00	0.00	5.95	5.21	10.42
G18	4.73	5.49	6.25	12.12	0.00	0.00	0.00	0.00	5.11	2.08	14.02
G19B	14.52	3.81	12.14	20.00	0.00	0.00	0.00	0.00	5.95	4.29	15.71
G19C*	33.33	0.00	33.33	16.67	0.00	0.00	0.00	0.00	0.00	16.67	0.00
G19D	3.09	0.69	12.03	44.67	0.00	0.00	0.00	0.00	11.68	7.90	13.40

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPI GROUPS (a)

PEC--> EPI GROUPS	A12	A13	A14	A15	A16	A17 *	A18 *	A19 *	A20	A21	E
G20	2.61	2.03	11.01	29.28	0.00	0.00	0.00	0.00	9.12	8.12	16.31
G21	1.61	1.61	8.03	39.36	0.00	0.00	0.00	0.00	8.03	7.23	16.06
G22	2.13	3.72	7.98	26.06	0.00	0.00	0.00	0.00	10.11	5.85	21.81
G23E	7.92	0.99	2.97	8.91	0.00	0.00	0.00	0.00	0.99	1.98	39.60
G23F	3.39	0.94	12.64	26.14	0.22	0.00	0.00	0.00	7.73	7.15	19.71
G23G	1.54	0.00	16.92	26.15	0.00	0.00	0.00	0.00	10.77	2.31	21.54
G23H	1.15	0.35	8.89	19.17	0.12	0.00	0.00	0.00	5.66	5.31	37.22
G23I	1.29	1.03	2.92	6.15	0.00	0.00	0.00	0.00	0.77	0.21	39.21
G23J	0.00	0.00	0.81	3.23	0.00	0.00	0.00	0.00	2.42	0.81	29.84
G24	11.92	1.16	3.78	5.52	0.00	0.00	0.00	0.00	1.45	0.58	6.10
G25A*	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.65
G25B	0.85	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	24.58
G26B	18.26	5.43	2.17	1.09	5.43	0.00	0.22	0.00	0.43	0.65	1.74
G26C	5.74	1.99	0.55	0.88	3.31	0.00	0.00	0.00	2.65	2.43	1.32
G26D	9.84	6.57	1.26	0.00	4.80	0.00	0.00	0.00	0.00	2.02	0.51
G27	4.59	1.69	6.29	5.90	4.59	0.45	0.45	0.00	5.50	6.28	5.96
G28	13.58	1.45	0.58	1.45	0.00	0.00	0.00	0.00	4.91	3.19	4.05
G29*	19.61	3.92	9.80	1.96	0.00	0.00	0.00	0.00	1.96	0.00	9.80
G30	18.67	0.86	3.43	3.00	2.79	0.00	0.21	0.00	5.15	9.37	4.51
G31	18.43	0.41	0.05	3.75	4.44	0.00	0.00	0.00	3.41	1.71	2.05
G32	15.71	4.29	0.20	0.41	2.65	0.00	0.20	0.00	1.84	1.43	1.63
G33	29.98	0.45	0.38	0.38	1.52	0.00	0.00	0.00	1.71	1.14	2.09
G34	6.67	0.00	11.11	28.15	0.00	0.00	0.00	0.00	10.37	8.89	17.78
G35*	0.00	0.00	17.86	32.14	0.00	0.00	0.00	0.00	7.14	0.00	17.86
G36*	1.85	3.70	3.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	11.11
G37	5.45	0.33	7.92	9.57	1.49	0.17	0.00	0.00	6.11	5.28	5.12

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPN GROUPS (a)

PEC-->	A12	A13	A14	A15	A16	A17 *	A18 #	A19 *	A20	A21	I
OTHER GROUPS TO TEST											
OTHER2A*	16.67	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER2B*	19.05	100.00	0.00	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00
OTHER2C*	3.37	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.25
OTHER2D	15.15	100.00	0.00	1.77	0.00	0.00	0.00	0.00	.076	0.25	3.54
OTHER3A	10.29	2.93	5.34	13.80	0.68	0.00	0.03	0.00	2.96	2.95	15.79
OTHER3B	2.70	1.23	5.90	23.10	0.74	0.00	0.00	0.00	6.14	3.93	18.18
OTHER3C	10.91	2.35	6.96	12.63	0.90	0.02	0.03	0.00	4.80	3.81	12.54
OTHER3D	3.42	1.00	3.92	22.67	0.33	0.08	0.00	0.00	7.50	6.58	20.50

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPP GROUPS (a)

PEC-->	C	D	E	F	G *
EPP. GROUPS					
G1	4.79	2.93	6.65	0.00	0.00
G2	6.51	5.58	6.51	0.00	0.47
G3	6.66	9.56	13.56	0.00	0.12
G4	0.00	12.75	7.52	0.00	0.00
G5	0.00	8.77	16.67	0.00	0.00
G6	75.27	6.78	1.69	0.00	0.00
G7	18.88	15.38	4.90	0.00	0.00
G8	12.39	14.10	7.96	0.00	0.00
G9	1.32	14.47	5.92	0.00	0.00
G10	4.91	9.81	5.23	0.00	0.00
G11B	3.92	4.90	3.43	0.00	0.00
G11C	2.17	1.63	2.17	0.54	0.00
G11D	4.11	2.35	2.05	0.29	0.00
G12	3.36	1.87	2.99	0.37	0.00
G13	5.29	11.35	4.39	0.13	0.13
G14	3.52	9.86	0.34	0.00	0.00
G15B	2.85	6.60	4.81	0.00	0.00
G15C	0.83	3.33	5.83	0.00	0.00
G15D	3.49	12.79	6.59	0.00	0.00
G16A	2.06	7.68	11.80	0.00	0.00
G16B	3.39	3.76	10.55	0.00	0.00
G17	3.79	3.72	5.65	0.00	0.00
G18	6.82	7.20	7.58	0.00	0.00
G19B	4.05	8.10	9.52	0.00	0.00
G19C*	16.67	0.00	16.67	0.00	0.00
G19D	4.47	8.25	5.84	0.00	0.00

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPI GROUPS (a)

PEC--> EPI GROUPS	C	D	E	F	G *
G20	7.25	10.72	6.38	0.00	0.00
G21	3.61	5.62	5.22	0.00	0.40
G22	7.45	9.57	4.26	0.00	0.00
G23E	15.81	17.32	9.90	0.00	0.00
G23F	8.30	10.97	6.86	0.00	0.07
G23G	10.77	7.69	2.31	0.00	0.00
G23H	13.28	18.71	2.08	0.00	0.00
G23I	14.62	16.15	2.31	0.00	0.00
G23J	15.32	16.13	0.81	0.00	0.00
G24	2.33	4.36	9.01	0.00	0.00
G25A*	0.00	5.88	5.88	0.00	0.00
G25B	5.08	6.78	2.54	0.00	0.00
G26B	4.13	0.00	7.39	4.35	0.00
G26C	0.88	0.00	1.55	78.15	0.00
G26D	5.56	0.00	3.79	1.01	0.25
G27	8.70	0.00	2.66	0.24	0.24
G28	1.73	0.00	1.16	69.08	0.00
G29*	35.29	0.00	1.96	0.00	0.00
G30	4.51	0.00	3.86	34.55	0.00
G31	1.02	0.00	8.87	23.09	0.69
G32	1.63	0.00	9.80	0.82	0.00
G33	3.23	0.00	9.49	1.90	0.19
G34	17.04	0.00	0.74	0.00	0.00
G35*	17.86	0.00	0.00	0.00	0.00
G36*	29.63	0.00	0.00	0.00	0.00
G37	8.58	0.00	7.59	0.17	0.17

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (a)

PEC-->	C	D	E	F	G *
OTHER GROUPS TO TEST					
OTHER2A*	0.00	0.00	0.00	0.00	0.00
OTHER2B*	0.00	0.00	0.00	0.00	0.00
OTHER2C*	0.00	2.25	4.49	2.25	0.00
OTHER2D	0.25	5.56	3.79	0.00	0.00
OTHER3A	7.96	7.58	8.73	2.12	0.09
OTHER3B	0.98	9.09	8.85	0.00	0.00
OTHER3C	6.19	5.89	5.94	5.63	0.05
OTHER3D	1.08	9.67	4.92	0.00	0.08

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (b)

EPM GROUPS--> PEC GROUPS	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
A2	4.09	10.13	31.47	7.76	10.99	2.16	3.66	3.23	5.82	3.23	0.00
A3	2.53	7.17	6.33	0.00	0.00	0.00	0.00	0.00	0.42	0.00	2.95
A4*	1.41	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	3.13	0.57	3.76	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.66
A7	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	5.13
A8	6.52	10.69	20.74	3.69	7.00	2.42	8.27	6.87	7.51	20.61	0.00
A9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	0.46	2.28	5.94	2.28	0.91	0.46	0.46	0.91	0.46	0.91	1.37
A12	1.66	1.19	7.69	1.40	0.67	0.16	0.00	0.00	0.05	0.21	0.47
A13	1.15	1.34	9.60	1.73	1.73	0.19	0.00	0.00	0.38	0.00	0.77
A14	2.16	0.31	3.47	4.17	2.47	0.08	0.00	0.08	0.23	0.62	1.39
A15	4.01	0.42	3.17	8.48	1.87	0.08	0.11	0.04	0.46	1.22	1.30
A16	0.00	0.00	0.64	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	1.91	0.11	2.25	4.16	1.12	0.11	0.00	0.00	0.22	0.56	1.12
A21	1.23	0.27	3.14	4.64	1.23	0.00	0.00	0.27	0.55	0.82	0.82
B	1.26	1.26	5.02	6.59	0.80	0.00	1.75	1.33	1.75	1.90	0.69
C	1.55	1.21	4.74	0.00	0.00	7.75	2.33	1.21	0.17	1.12	0.69
D	0.89	0.97	6.36	6.28	1.61	0.64	1.77	1.29	1.77	2.09	0.81
E	2.03	1.14	9.10	3.74	3.09	0.16	0.57	0.73	0.73	1.14	0.57
F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G*	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPN GROUPS (b)

EPN GROUPS-->	G11C	G11I	G12	G13	G14	G15I	G15C	G15D	G16A	G16I	G17
PEC GROUPS											
A1	1.65	0.28	1.51	4.20	1.17	4.47	0.76	2.34	5.57	9.22	3.23
A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A3	1.27	0.42	0.00	3.38	0.84	3.38	0.42	1.69	1.69	13.92	4.64
A4*	0.00	0.00	2.82	5.63	0.00	4.23	0.00	0.00	0.00	0.00	35.21
A5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	6.50	8.03	5.19	11.40	0.17	5.98	0.17	0.03	4.96	16.75	24.90
A7	0.06	0.06	1.75	7.86	1.30	0.00	3.96	6.04	3.51	10.59	2.08
A8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
A9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	0.00	0.00	1.37	4.11	0.00	2.28	0.00	0.46	3.20	4.11	8.60
A12	0.62	0.93	0.57	2.85	0.62	3.42	0.05	0.73	5.19	10.11	16.03
A13	0.00	0.96	1.92	2.50	1.73	2.69	0.19	1.54	4.41	10.75	11.32
A14	1.00	2.16	1.70	4.32	1.16	5.63	1.31	1.31	2.85	4.32	9.26
A15	0.00	2.71	1.83	3.36	0.80	4.77	0.57	1.22	2.63	3.09	7.37
A16	1.91	1.91	0.64	0.64	0.00	0.64	0.00	0.64	0.00	0.00	4.46
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
A18*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	0.22	2.81	2.02	4.72	2.02	3.82	0.67	1.46	2.92	3.15	8.99
A21	0.41	2.18	0.82	2.73	1.09	3.68	0.27	1.77	2.05	2.73	9.55
B	0.46	0.76	0.76	4.68	0.95	2.21	0.46	1.60	2.89	4.38	5.33
C	0.34	1.21	0.78	3.53	0.43	1.38	0.09	0.78	0.95	3.19	4.39
D	0.24	0.64	0.40	7.09	1.13	2.98	0.32	2.66	3.30	3.30	4.03
E	0.32	0.57	0.65	2.76	0.73	2.19	0.57	1.38	5.12	9.34	6.17
F	0.12	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G*	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (b)

EPM GROUPS--> PEC GROUPS	G18	G19B	G19C*	G19D	G20	G21	G22	G23D	G23F	G23G	G23H
A1	5.78	4.47	0.00	1.17	3.72	2.06	2.41	0.07	5.02	0.14	0.14
A2	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
A3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00
A4*	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	7.04	0.00	1.41
A5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	0.06	1.20	0.00	0.00	0.00	0.00	0.00	0.06	2.05	0.00	0.00
A7	10.66	0.13	0.00	0.13	0.39	0.06	0.06	1.49	10.46	1.43	5.07
A8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.25	0.25	0.38
A9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	11.87	3.68	0.00	1.83	2.74	4.11	3.65	0.46	4.11	0.46	5.94
A12	1.30	3.16	0.10	0.47	0.47	0.21	0.21	0.41	2.44	0.10	0.52
A13	5.57	3.07	0.00	0.38	1.34	0.77	1.34	0.19	2.50	0.00	0.58
A14	2.55	3.94	0.15	2.70	2.93	1.54	1.10	0.23	13.50	1.70	5.94
A15	2.44	3.21	0.04	4.96	3.86	3.74	1.87	0.34	13.82	1.30	6.34
A16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91	0.00	0.64
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	3.03	2.81	0.00	3.82	3.15	2.25	2.13	0.11	12.02	1.57	5.51
A21	1.50	2.46	0.14	3.14	3.82	2.46	1.50	0.27	13.51	0.41	8.05
B	2.82	2.51	0.00	1.48	2.21	1.52	1.56	1.18	10.39	1.07	12.60
C	3.10	1.46	0.09	1.12	2.15	0.78	1.21	1.64	9.91	1.21	9.91
D	3.06	2.74	0.00	1.93	2.98	1.13	1.45	1.45	12.24	0.81	13.04
E	3.25	3.25	0.08	1.38	1.79	1.06	0.65	0.81	7.72	0.24	1.46
F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G*	0.00	0.00	0.00	0.00	0.00	9.09	0.00	0.00	9.09	0.00	0.00

*Less than one-half of one percent of sample population.

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPN GROUPS (b)

EPN GROUPS--> / PLC GROUPS	G23I	G23J	G24	G25A *	G25B	G26B	G26C	G26D	G27	G28	G29 *
A1	6.13	3.10	1.65	0.21	0.62	4.61	0.14	0.76	4.75	0.14	0.21
A2	0.22	0.00	0.00	0.00	0.00	0.00	0.65	1.94	0.65	0.22	0.43
A3	0.00	0.00	0.00	0.00	0.00	16.03	0.84	2.95	0.00	1.27	0.00
A4*	0.00	0.00	0.00	0.00	0.00	0.00	7.04	4.23	0.00	2.82	0.00
A5	0.00	0.00	0.00	0.00	0.00	7.94	2.12	30.95	0.00	0.93	0.00
A6	0.00	0.00	2.17	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
A7	3.64	1.88	16.05	0.78	5.20	0.00	0.00	0.00	0.00	0.00	0.00
A8	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
A9	0.00	0.00	0.00	0.00	0.00	19.77	0.34	1.68	18.43	0.34	0.84
A10	0.00	0.00	0.00	0.00	0.00	0.00	6.49	16.23	23.38	0.00	0.00
A11	1.83	0.91	0.00	0.00	0.00	3.20	0.00	0.00	0.91	0.91	0.00
A12	0.26	0.00	2.13	0.00	0.05	4.36	1.35	1.82	0.99	2.44	0.52
A13	0.77	0.00	0.77	0.00	0.00	4.80	1.73	4.99	1.34	0.96	0.38
A14	0.85	0.08	1.00	0.08	0.08	0.77	0.31	0.39	2.01	0.15	0.39
A15	0.92	0.15	0.73	0.00	0.04	0.19	0.15	0.00	0.92	0.19	0.04
A16	0.00	0.00	0.00	0.00	0.00	15.92	9.55	12.10	12.10	0.00	0.00
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00
A18*	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	40.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	0.34	0.34	0.56	0.00	0.00	0.22	1.35	0.00	2.58	1.91	0.11
A21	0.14	0.14	0.27	0.00	0.00	0.41	1.50	1.09	3.55	1.50	0.00
B	5.82	1.41	0.80	0.11	1.10	0.30	0.23	0.08	0.91	0.53	0.19
C	4.91	1.64	0.69	0.00	0.52	1.64	0.34	1.89	3.10	0.52	1.55
D	5.07	1.61	1.21	0.08	0.64	0.00	0.00	0.00	0.00	0.00	0.00
E	0.73	0.08	2.52	0.08	0.24	2.76	0.57	1.22	0.89	0.32	0.00
F	0.00	0.00	0.00	0.00	0.00	2.30	40.78	0.46	0.12	27.53	0.00
G*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	9.09	0.00	0.00

OVERLAP BETWEEN APPLICANTS MEETING PEC'S AND APPLICANTS FALLING IN EPM GROUPS (b)

EPM GROUPS-->	G30	G31	G32	G33	G34	G35 *	G36 *	G37
PEC GROUPS								
A1	2.13	2.34	2.68	3.10	0.14	0.21	0.21	6.13
A2	2.59	2.59	1.08	1.94	0.22	0.00	0.22	2.37
A3	6.33	5.49	6.33	5.49	0.00	0.00	0.00	0.84
A4*	5.63	2.82	5.63	7.04	0.00	0.00	0.00	2.82
A5	3.17	3.04	27.38	24.47	0.00	0.00	0.00	0.00
A6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A9	3.52	4.86	13.90	6.87	0.00	0.00	2.51	26.97
A10	3.90	7.14	8.44	5.19	0.00	0.00	3.90	25.32
A11	2.28	0.46	1.83	0.91	0.00	0.00	0.46	1.83
A12	4.51	2.80	3.99	8.20	0.47	0.00	0.05	1.71
A13	0.77	1.54	4.03	6.53	0.00	0.00	0.38	0.38
A14	1.23	0.77	0.08	0.15	1.16	0.39	0.15	3.70
A15	0.53	0.42	0.08	0.08	1.45	0.34	0.08	2.21
A16	8.28	8.28	8.28	5.10	0.00	0.00	0.00	5.73
A17*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
A18*	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
A19*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A20	2.70	1.12	1.01	1.01	1.57	0.22	0.00	4.16
A21	5.32	0.68	0.95	0.82	1.64	0.00	0.00	4.37
B	0.80	0.23	0.30	0.42	0.91	0.19	0.23	1.18
C	1.81	0.26	0.69	1.46	1.98	0.43	1.38	4.48
D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	1.46	2.11	3.90	4.06	0.08	0.00	0.00	3.74
F	18.55	8.06	0.46	1.15	0.00	0.00	0.00	0.12
G*	0.00	18.18	0.00	9.09	0.00	0.00	0.00	9.09

GUIDE TO READING THE EXPERIENCE OF INELIGIBLES WITH EXISTING PEC'S TABLE

This table, Experience of Ineligibles with Existing PEC's, looks at individual applicants receiving verify codes (which are part of the edits system before the point at which the applicants were determined ineligible) and extrapolates for them Pre-established Criteria (PEC) experience when possible. Not all PEC's can be linked to a verify code, and these are indicated on the table.

The top row of the table lists the columns "Frequency" and "Percentage". The "Frequency" column indicates how many applicants link with a particular PEC. The "Percentage" column indicates of all ineligible applicants in the sample who had a verify code link to a PEC, that percent which linked with a specific PEC. The column on the far left side of the table lists the PEC groups.

To read this table, look at the far left column, and find that for PEC Group A1 "Frequency" column, 186 applicants received verify codes which linked with this group and, from the "Percent" column, this was 1.32% of the ineligibles sample.

EXPERIENCE OF INELIGIBLES
WITH EXISTING PEC'S

PEC GROUPS:	FREQUENCY	PERCENTAGE
A1	186	1.32
A2	16	0.11
A3	2	0.01
A4	3	0.02
A5	1	0.01
A6	12	0.09
A7	209	1.48
A8	38	0.27
A9	118	0.84
A10	29	0.21
A11	45	0.32
A12	56	0.40
A13	20	0.14
A14*	--	--
A15*	--	--
A16	29	0.21
A17*	--	--
A18	0	0.00
A19*	--	--
A20	0	0.00
A21*	--	--
B*	--	--
C*	--	--
D*	--	--
F*	--	--
G*	--	--

*PEC experience for people falling in this group cannot be simulated because no verify code links to this PEC group.

EXPERIENCE OF INELIGIBLES WITH EXISTING REC'S (Con't)

	FREQUENCY	PERCENTAGE
REC SPLITS:		
A1I1	22	0.16
A1I2	32	0.23
A1I3	132	0.94
A2I1	2	0.01
A2I2	2	0.01
A2I3	12	0.09
A2II1	16	0.11
A2II2*	--	--
A3I1	2	0.01
A3I2*	--	--
A3I3*	--	--
A3II1*	--	--
A3II2*	--	--
A3II3	2	0.01
A3III1	2	0.01
A3III2*	--	--
A5I1*	--	--
A5I2*	--	--
A5I3	1	0.01
A5II1*	--	--
A5II2	1	0.01
A5III1*	--	--
A5III2	1	0.01
A6I1	4	0.03
A6I2	8	0.06
A6II1	6	0.04
A6II2	6	0.04

EXPERIENCE OF INELIGIBLES WITH EXISTING PEC'S (Con't)

	FREQUENCY	PERCENTAGE
A6III1	10	0.07
A6III2	2	0.01
A6IV1	4	0.03
A6IV2	8	0.06
A6V1	5	0.04
A6V2	7	0.05
A7I1	50	0.36
A7I2	159	1.13
A7II1*	--	--
A7II2	208	1.48
A7III1	157	1.12
A7III2	52	0.37
A8I1	7	0.50
A8I2	31	0.22
A8II1*	--	--
A8II2	38	0.27
A8III1	23	0.16
A8III2	15	0.11
A9I1	54	0.38
A9I2	57	0.41
A9I3	7	0.05
A9II1*	--	--
A9II2	118	0.84
A9III1	39	0.28
A9III2	79	0.56
A10I1	11	0.08
A10I2	16	0.11
A10I3	2	0.01
A10II1*	--	--
A10II2	29	0.21

EXPERIENCE OF INELIGIBLES (Con't)
WITH EXISTING PEC'S

	FREQUENCY	PERCENTAGE
A10III1	1	0.01
A10III2	28	0.20
A12I1	18	0.13
A12I2	17	0.12
A12I3	13	0.09
A12II1	11	0.08
A12II2	45	0.32
A12III1	14	0.10
A12III2	42	0.30
A12IV1*	--	--
A12IV2*	--	--
A12IV3	56	0.40
A13I1	20	0.14
A13I2*	--	--
A13I3*	--	--
A13II1	15	0.11
A13II2	5	0.04
A13III1	13	0.09
A13III2	7	0.05
A14I1*	--	--
A14I2*	--	--
A14II1*	--	--
A14II2*	--	--
A14II3*	--	--
A15I1*	--	--
A15I2*	--	--
A15II1*	--	--
A15II2*	--	--
A15II3*	--	--

EXPERIENCE OF INELIGIBLES WITH EXISTING FEC'S (Con't)

	FREQUENCY	PERCENTAGE
FI1*	--	--
FI2*	--	--
FII1*	--	--
FII2*	--	--
FIII1*	--	--
FIII2*	--	--

Total: 18,086 Total: 100%

APPENDIX B

DEFINITIONS OF EPM CRITERIA

APPENDIX I

Definitions of EPM Criteria

Group 1: dependents who estimated taxes, had SEI not over 400, no savings and father's portion missing or 0.

Group 2: dependents who estimated taxes, had SEI not over 400, no savings and father's portion greater than 0.

Group 3: dependents who estimated taxes, had SEI not over 400 and had savings.

Group 4: dependents who estimated taxes, had SEI over 400, taxes not over $2,000, no change in SEI prior to selection and were processed by May 31.

Group 5: dependents who estimated taxes, had SEI over 400, taxes not over $2,000, no change in SEI prior to selection and were processed after May 31.

Group 6: dependents who estimated taxes, had SEI over 400, taxes not over $2,000 and a change in SEI from a previous transaction.

Group 7: dependents who estimated taxes, had SEI from 401 to 1200, taxes over $2,000, both portions greater than 0, whose first choice is a university.

Group 8: dependents who estimated taxes, had SEI from 401 to 1200, taxes over $2,000, both portions greater than 0, whose first choice institution is missing or not a university.

Group 9: dependents who estimated taxes, had SEI over 1200, taxes over $2,000 and both portions greater than 0.

Group 10: dependents who estimated taxes, had SEI over 400, taxes over $2,000 and at least one portion 0 or blank.

Group 11B: dependents who did not estimate tax figures, taxes more than 5% AGI, filed through BEOG or PHEAA, did not own a house and chose a public institution or none at all.

Group 11C: dependents who did not estimate tax figures, taxes below 5% AGI, NTI equals 0, filed through BEOG or PHEAA, did not own a house and chose a public institution or none at all.

Group 11D: dependents who did not estimate tax figures, taxes below 5% AGI, NTI is not 0, filed through BEOG or PHEAA, did not own a house and chose a public institution or none at all.

Group 12: dependents who did not estimate tax figures, filed through BEOG or PHEAA, did not own a house and their first choice school was private or proprietary.

Group 13: dependents who did not estimate tax figures, filed through BEOG, house value was greater than 0 and chose a university or no institution.

Group 14: dependent applicants who did not estimate taxes, filed through PHEAA, house value was greater than 0, and first choice was a university or no institution.

Group 15B: dependent applicants who did not estimate taxes, taxes were less than 5% AGI, filed through BEOG or PHEAA, house value was greater than 0 and listed a first choice institution other than a university.

Group 15C: dependent applicants who did not estimate taxes, taxes were greater than 5% AGI, parents savings were 0 or blank, filed through BEOG or PHEAA, house value was greater than 0 and listed a first choice institution other than a university.

Group 15D: dependent applicants who did not estimate taxes, taxes were greater than 5% AGI, parents savings were not 0, filed through BEOG or PHEAA, house value was greater than 0 and listed a first choice institution other than a university.

Group 16A: dependent applicants who did not estimate taxes, filed through ACT or CSS, had SEI greater than 0, total income not over $10,000 and NTI not over 50 percent of total income.

Group 16B: dependent applicants who did not estimate taxes, filed through ACT or CSS, had SEI equal to 0.

Group 17: dependent applicants who did not estimate, filed through ACT or CSS, had SEI not over 200, total income not over $10,000 and NTI over 50 percent of total income.

Group 18: dependents who did not estimate, filed through ACT or CSS, had SEI not over 200 and total income over $10,000.

Group 19B: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, NTI less than AGI, and either paid no taxes or left taxes blank.

Group 19C: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, NTI greater than AGI and less than $3000, and either paid no taxes or left taxes blank.

Group 19D: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, NTI greater than AGI and $3000, and either paid no taxes or left taxes blank.

Group 20: dependents who did not estimate, filed through ACT or CSS, had SEI from 201 to 600, paid taxes, but taxes were not over 5 percent of AGI.

Group 21: dependents who did not estimate, filed through ACT or CSS, had SEI over 600, paid taxes, taxes were under 5 percent of AGI and assets were not over $30,000.

Group 22: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 600, paid taxes, had taxes not over 5 percent of AGI and assets over $30,000.

Group 23E: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes were 5 to 15 percent of AGI and no more than parents' portions, and business and farm value were greater than 0.

Group 23F: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes were 5 to 15 percent of AGI, and AGI was no more than parents portions, business and farm values are 0 or blank, and both parents portions are less than 0.

Group 23G: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes were 5 to 15 percent of AGI, AGI was greater than parents' portions, and savings equal 0.

Group 23H: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes were 5 to 15 percent of AGI, AGI was greater than parents portions, and savings do not equal 0.

Group 23I: dependents who did not estimate taxes, filed through ACT or CSS, had SEI greater than 600, taxes were 5 to 15 percent of AGI, AGI was no more than parents' portions, business and farm value 0 or blank, and both parents' portions greater than 0.

Group 25J: dependents who did not estimate taxes, filed through ACT or CSS, had SEI no more than 600, taxes were 5 to 15 percent of AGI, AGI was no more than parents' portions, and business and farm value 0 or blank, and both parents' portions greater than 0.

Group 24: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes over 15 percent of AGI and AGI not over $25,000.

Group 25A: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes over 15 percent of AGI, AGI not over $25,000, and home value + business value + investment value + parents savings are no more than 0 or blank.

Group 25B: dependents who did not estimate taxes, filed through ACT or CSS, had SEI over 200, taxes over 15 percent AGI, AGI not over $25,000, and home value + business value + investment value + parents savings are greater than 0.

Group 26B: independents who did not estimate taxes, who filed through BEOG or PHEAA with SEI equal to 0.

Group 26C: independents who estimated taxes or did not file, with a household size no more than 1, and filed through BEOG or PHEAA with SEI equal to 0.

Group 26D: independents who estimated taxes or did not file, with a household size greater than 1, and filed through BEOG or PHEAA with SEI equal to 0.

Group 27: independents who filed through BEOG or PHEAA with SEI greater than 0.

Group 28: independents who filed through ACT or CSS, had SEI equal to 0, exemptions not greater than one, were processed by April 30 and had AGI not over $2,000.

Group 29: independents who filed through ACT or CSS, had SEI equal to 0, exemptions not greater than one, were processed by April 30 and had AGI over $2,000.

Group 30: independents who filed through ACT or CSS, had SEI equal to 0, exemptions not greater than one, were processed by May 1 to July 31.

Group 31: independents who filed through ACT or CSS, had SEI equal to 0, exemptions not greater than one, were processed after July 31.

Group 32: independents who filed through ACT or CSS, had SEI equal to 0, exemptions greater than one and year in school equal than 1 or blank.

Group 33: independents who filed through ACT or CSS, had SEI equal to 0, exemptions greater than one and year in school greater than 1.

Group 34: independents who filed through ACT or CSS, had SEI greater than 0, were processed by April 30, paid taxes not over $500, and signed their application by February 28 or left the date blank.

Group 35: independents who filed through ACT or CSS, had SEI greater than 0, were processed by April 30, paid taxes not over $500, and signed their application after February 28.

Group 36: independents who filed through ACT, had SEI greater than 0, were processed by April 30, and had taxes over $500.

Group 37: independents who filed through ACT or CSS, had SEI greater than 0, and were processed after April 30.

APPENDIX C

DEFINITIONS OF PEC'S AND THE VERIFY CODES TO WHICH THEY LINK

APPENDIX C

Definition of Pre Established Criteria (PEC) And Verify Codes to Which They Link

PEC	Description
A1	Any previous transaction was rejected for the sum of portions being greater than 120 percent of AGI and business/farm value/debt are any combination of blanks, negatives, and zeros and this reject reason has been verified on the current transaction and the tax filing status is not estimated. (Links to Verify Code A.)
A2	Any previous transaction was rejected for the sum of portions being greater than 120 percent of AGI and business/farm value/debt are any combination of blanks, negatives, and zeros and this reject reason has been verified on the current transaction and the tax filing status is not estimated. (Links to Verify Code A.)
A3	Any previous transaction was rejected for zero AGI and the sum of portions is greater than zero and a tax return has been filed and business/farm value/debt are any combination of blanks, negatives, and zeros and this reject reason has been verified on the current transaction. (Links to Verify Code C.)
A4	Any previous transaction was rejected for portions being greater than 120 percent of ONTI and AGI is blank or zero and the EI calculated using the sum of ONTI plus portions is greater than the EI calculated using ONTI by 50 points and this reject reason has been verified on the current transaction and no tax return has been filed or answer is blank. (Links to Verify Code B.) or

Any previous transaction was rejected for portions being greater than 120 percent of ONTI and AGI is blank or zero and no EI was calculated and no tax return has been filed or answer is blank and this reject reason has been verified on the current transaction. (Links to Verify Code B.)

A5 Student status is independent and any previous transaction was rejected for household size greater than one and total income less than $400 per family member and this reject reason has been verified on the current transaction. (Links to Verify Code D.)

A6 Student status is dependent and any previous transaction was rejected for total income being less than $400 per family member and this reject reason has been verified on the current transaction. (Links to Verify Code D.)

A7 Student status is dependent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is not estimated. (Links to Verify Code E.)

A8 Student status is dependent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is estimated. (Links to Verify Code E.)

A9 Student status is independent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is not estimated. (Links to Verify Code E.)

A10 Student status is independent and any previous transaction was rejected for reported tax exceeding computed tax by $500 or more and this reject reason has been verified on the current transaction and tax filing status is estimated. (Links to Verify Code E.)

A11 Any previous transaction was rejected for medical/dental expenses exceeding $5,000 and this reject reason has been verified on the current transaction. (Links to Verify Code H.)

A12 Any previous transaction was rejected for medical/dental expenses exceeding $500 and 30 percent of total income and this reject reason has been verified on the current transaction. (Links to Verify Code I.)

A13 Any previous transaction was rejected for tuition exceeding $500 and 20 percent of total income and this reject reason has been verified on the current transaction. (Links to Verify Code J.)

A14 Any previous transaction was rejected for Social Security match and EI calculated using reported SS is less than the EI calculated using the SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds the reported SS amount by $500 (dependent) or $100 (independent) and this reject reason has been verified on the current transaction. (Links to Verify Codes F, G.)

A15 Any previous transaction was rejected for Social Security match and EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $500 (dependent) or $100 (independent). (No Verify Code Link.)

or

Any previous transaction was rejected for Social Security match and EI was not calculated and the reported SS amount is less than the SS file amount by $500 (dependent) or $100 (independent) and reported SS amount has been corrected and now, EI calculated with reported amount is less than EI calculated with SS file amount by more than 50 points. (No Verify Code Link.)

A16	Any previous transaction was rejected for VA match with reported VA amount blank, zero and this reject reason was verified. (Links to Verify Code K.)
A17	Any previous transaction was rejected for VA match with reported VA amount blank or zero and the reported VA amount has been corrected to an amount less than $156. (No Verify Code Link.)
A18	Any previous transaction was rejected for VA match with reported VA amount between $0 and $156 and this reject reason has been verified. (Links to Verify Code L.)
A19	Any previous transaction was rejected for VA match with reported VA amount between $0 and $156 and reported VA amount has been corrected to an amount less than $156. (No Verify Code Link.)
A20	Any previous transaction was rejected for reported VA amount being negative or less than $156 but greater than $0 and not a VA match and this reject reason has been verified on this transaction. (Links to Verify Code X.)
A21	Any previous transaction was rejected for reported VA amount being negative or less than $156 but greater than $0 and reported VA amount has been corrected to an amount less than $156. (No Verify Code Link.)
B	Any previous transaction has an EI greater than 1600 and current transaction has an EI less than 1351. (No Verify Code Link.)
C	If the current transaction has an EI less than 1600 then subtract the current EI from the highest eligible EI of any previous transaction. Select if the result is greater than 249 points. (No Verify Code Link.)
D	Applicants' savings and net assets have been corrected from any previous transaction by an amount greater than $300. (No Verify Code Link.)

E	The first official transaction was rejected and total family income on that transaction has been corrected by an amount greater than $3,000. (No Verify Code Link.)
F	Independent with household size of one and total income less than $400. (No Verify Code Link.)
G	People on the problem file who should be automatically selected for validation for the current year. (No Verify Code Link.)

APPENDIX D

DEFINITIONS OF PEC SPLITS

APPENDIX D

Definitions of PEC Splits

A1I1: Independents who are older than or equal to 22 years, whose sum of mother's and father's portions is greater than 120 percent of AGI, have no farm/business debt, and taxes are not estimated.

A1I2: Independents who are younger than 22 years, and whose sum of mother's and father's portions is greater than 120 percent of AGI, have no farm/business debt, and taxes are not estimated.

A1I3: Dependents whose sum of portions is greater than 120 percent AGI, have no farm/business debt, and taxes are not estimated.

A2I1: Independents who are older than or equal to 22 years, whose sum of mother's and father's portions is greater than 120 percent of AGI, have no farm/business debt, and taxes are not estimated.

A2I2: Independents who are younger than 22 years, and whose sum of mother's and father's portions is greater than 120 percent of AGI, have no farm/business debt, and taxes are not estimated.

A2I3: Dependents whose sum of portions is greater than 120 percent AGI, have no farm/business debt, and taxes are not estimated.

A2II1: Selection transaction on or after 5/15 date, whose sum of mother's and father's portions is greater than 120 percent AGI, has no farm/business debt and taxes are not estimated.

A2II2: Selection transaction before 5/15 date, whose sum of mother's and father's portions is greater than 120 percent AGI, has no farm/business debt and taxes are not estimated.

A3I1: Applicant whose AGI is equal to 0, and sum of portions is reported, tax filing status is 'yes', has no farm/business debt, and taxes are not estimated.

A3I2: Applicant whose AGI is equal to 0, and sum of portions is reported, tax filing status is 'yes', has no farm/business debt, and taxes are estimated with selection transaction on or after 5/15 date.

A3I3: Applicant whose AGI is equal to 0, and sum of portions is reported, tax filing status is 'yes', has no farm/business debt and taxes are not estimated, with selection transaction before 5/15 date.

A3II1: Independents who are older than or equal to 22 years and whose AGI is equal to 0, whose sum of portions is reported, and tax filing status is 'yes', who have no farm/business.

A3II2: Independents who are younger than 22 years, and whose AGI is equal to 0, whose sum of portions is reported, and tax filing status is 'yes', who have no farm/business debt.

A3II3: Dependents, whose AGI is equal to 0, and whose sum of portions is reported, and tax filing status is 'yes', and have no farm/business debt.

A3III1: Applicant whose AGI is equal to 0, and sum of portions is reported, tax filing status is 'yes', has no farm/business debt, with an EI greater than 0.

A3III2: Applicant whose AGI is equal to 0, and sum of portions is reported, tax filing status is 'yes', has no farm/business debt, with an EI equal to 0.

A5I1: Independents who are married, with a household size greater than 1, and an income less than $400 per household member.

A5I2: Independents who are unmarried, with a household size greater than 1, and an income less than $400 per household member.

A5I3: Independents who are separated, with a household size greater than 1, and an income less than $400 per household member.

A5II1: Independents whose household size is greater than 1, whose income is less than $400 per household member, and whose home value is reported.

A5II2: Independents whose household size is greater than 1, whose income is less than $400 per household member, and whose home value is not reported.

A5III1: Independents whose household size is greater than 1, whose income is less than $400 per household member, and whose savings are greater than or equal to $1,000.

A5III2: Independents whose household size is greater than 1, whose income is less than $400 per household member, and whose savings are less than $1,000.

A6I1: Dependents, whose income is less than $400 per household member, and farm/business value is reported.

A6I2: Dependents, whose income is less than $400 per household member, and farm/business value is not reported.

A6II1: Dependents whose income is less than $400 per household member, and parent is divorced, separated, or widowed.

A6II2: Dependents whose income is less than $400 per household member, and parent(s) is/are single or married.

A6III1: Dependents whose income is less than $400 per household member, and home value is reported.

A6III2: Dependents whose income is less than $400 per household member, and home value is not reported.

A6IV1: Dependents whose income is less than $400 per household member, and savings and net investments are greater than or equal to $3,000.

A6IV2: Dependents whose income is less than $400 per household member, and savings and net investments are less than $3,000.

A6V1: Dependent applicants income is greater than or equal to $3,500.

A6V2: Dependent applicants income is less than $3,500.

A7I1: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, whose parent is divorced, separated or widowed.

A7I2: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, whose parent(s) is/are single or married.

A7II1: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, with exemptions blank.

A7II2: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, with exemptions reported.

A7III1: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, with itemized deductions reported.

A7III2: Dependents who reported tax greater than computed tax by $500, and taxes are not estimated, with itemized deductions not reported.

A8I1: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, whose parent is divorced, separated or widowed.

A8I2: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, whose parent(s) is/are single or married.

A8II1: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, with exemptions blank.

A8II2: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, with exemptions reported.

A8III1: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, with itemized deductions reported.

A8III2: Dependents who reported tax greater than computed tax by $500, and taxes are estimated, with itemized deductions not reported.

A9I1: Independents who are married, who reported tax greater than computed tax by $500, and taxes are not estimated.

A9I2: Independents who are unmarried, who reported tax greater than computed tax by $500, and taxes are not estimated.

A9I3: Independents who are separated, who reported tax greater than computed tax by $500, and taxes are not estimated.

A9II1: Independents who reported tax greater than computed tax by $500, and taxes are not estimated, with exemptions blank.

A9II2: Independents who reported tax greater than computed tax by $500, and taxes are not estimated, with exemptions reported.

A9III1: Independents who reported tax greater than computed tax by $500, and taxes are not estimated, with itemized deductions reported.

A9III2: Independents who reported tax greater than computed tax by $500, and taxes are not estimated, with itemized deductions not reported.

A12II2: Medical/Dental is greater than 30 percent of income and is greater than $500, and farm/business value is not reported.

A12III1: Medical/Dental is greater than 30 percent of income and is greater than $500 and less than or equal to $1,400.

A12III2: Medical/Dental is greater than $1,400.

A12IV1: Medical/Dental is greater than 30 percent of income and is greater than $500, and FI equals zero.

A12IV2: Medical/Dental is greater than 30 percent of income and is greater than $500, and FI is greater than or equal to 1 and no more than 700.

A12IV3: Medical/Dental is greater than 30 percent of income and is greater than $500, and FI is greater than 700.

A13I1: Dependents whose tuition is greater than $500 and 20 percent of income.

A13I2: Independents who are older than or equal to 30 years, and whose tuition is greater than $500 and 20 percent of income.

A13I3: Independents who are younger than 30 years, and whose tuition is greater than $500 and 20 percent of income.

A13II1: Tuition is greater than 20 percent of income and is greater than or equal to $1,000.

A13II2: Tuition is between $500 and $1,000 and greater than 20 percent of income.

A13III1: Tuition is greater than 20 percent of income and is greater than or equal to $2,000.

A13III2: Tuition is between $500 and $2,000 and greater than 20 percent of income.

A14I1: Social Security amount match, dependents, whose parent is divorced, separated, or widowed, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $500.

A14I2: Social Security amount match, dependents, whose parent(s) is/are single or married and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $500.

A14II1: Social Security amount match, independents, who are unmarried, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $100.

A14II2: Social Security amount match, independents, who are married, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $100.

A14II3: Social Security amount match, independents, who are separated, and whose EI calculated using reported SS is less than EI calculated using SS file amount by more than 50 points or, if EI cannot be calculated, the amount on SS file exceeds reported SS amount by $100.

A15I1: Social Security amount match, dependents, whose parent is divorced, separated, or widowed, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $500.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $500, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15I2: Social Security amount match, dependents, whose parent(s) is/are single or married and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $500.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $500, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15II1: Social Security amount match, independents, who are unmarried, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $100.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $100, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15II2: Social Security amount match, independents, who are married, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $100.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $100, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

A15II3: Social Security amount match, independents, who are separated, and whose EI calculated using reported SS is less than EI calculated using SS file amount by 50 points and reported amount has been corrected and new reported amount is less than the file amount by $100.

or

Previous transaction was rejected for SS match and EI not calculated and reported SS amount is less than SS file by $100, and reported SS amount has been corrected and now EI calculated with reported amount is less than EI calculated with missing SS file amount by more than 50 points.

FI1: Independents, who are unmarried, and whose household size is equal to 1, and income is less than $400.

FI2: Independents, who are separated, and whose household size is equal to 1, and income is less than $400.

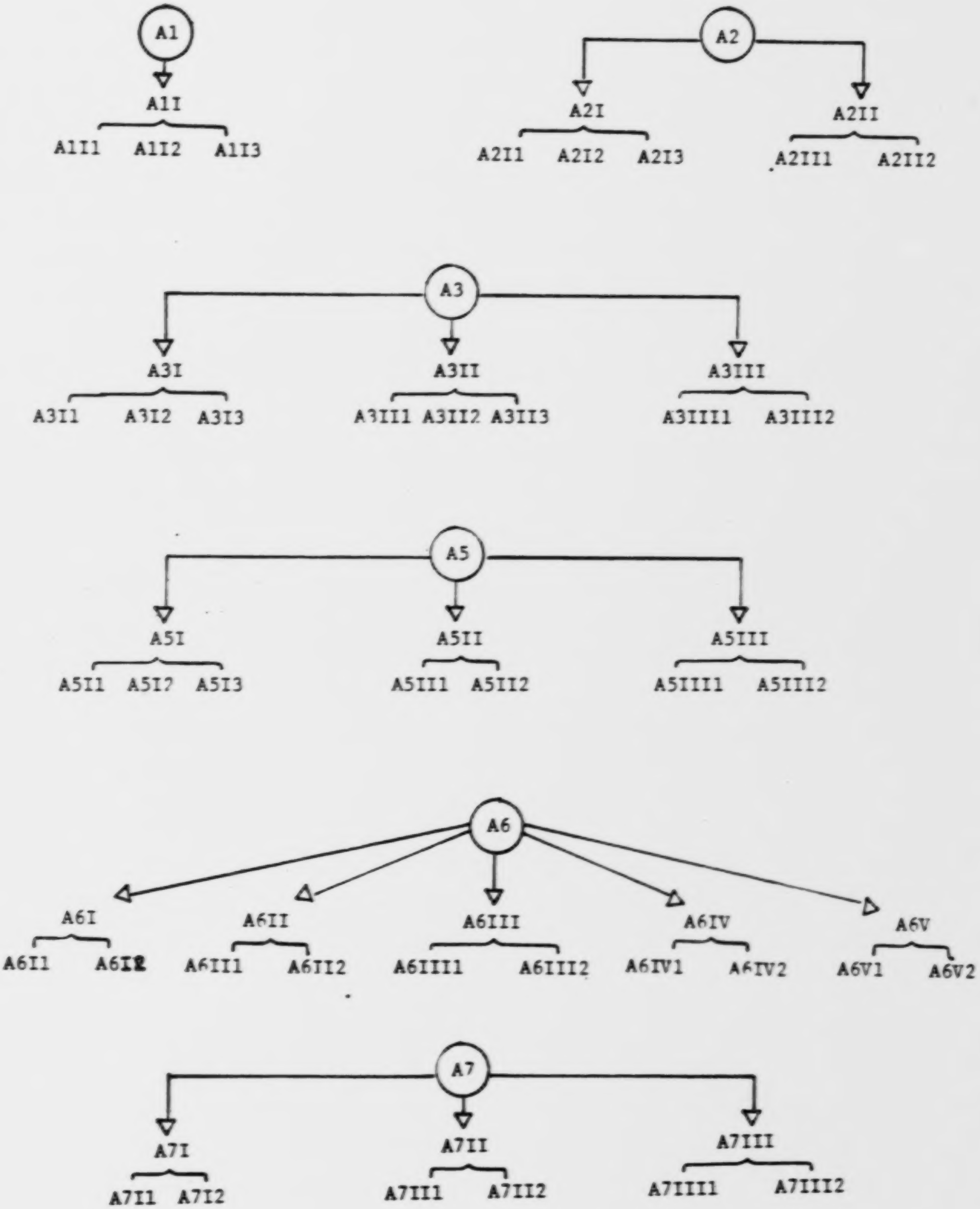
FII1: Independents, whose year in school is equal to 1, household size is equal to 1, and income is less than $400.

FII2: Independents, whose year in school is not equal to 1, household size is equal to 1, and income is less than $400.

FIII1: Independents, whose age is greater than 22 years, household size is equal to 1, and income is less than $400.

FIII2: Independents, whose age is less than 22 years, household size is equal to 1, and income is less than $400.

PEC-SPLITS TREE DIAGRAM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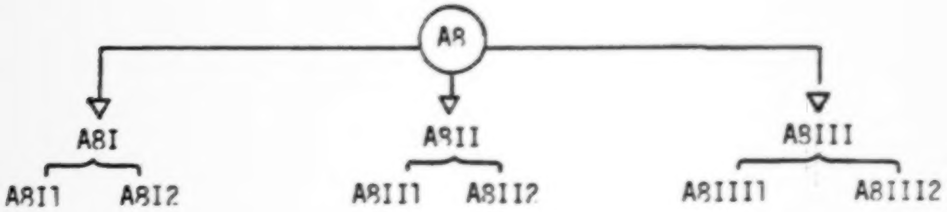
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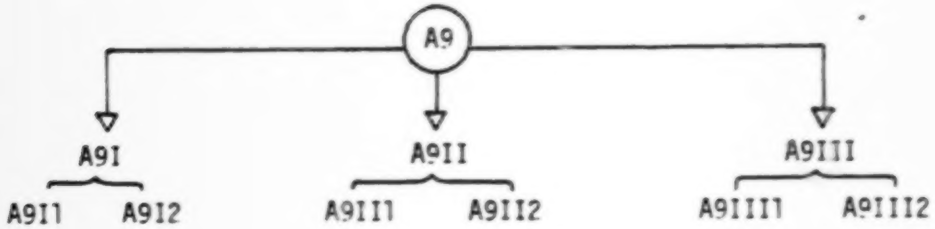
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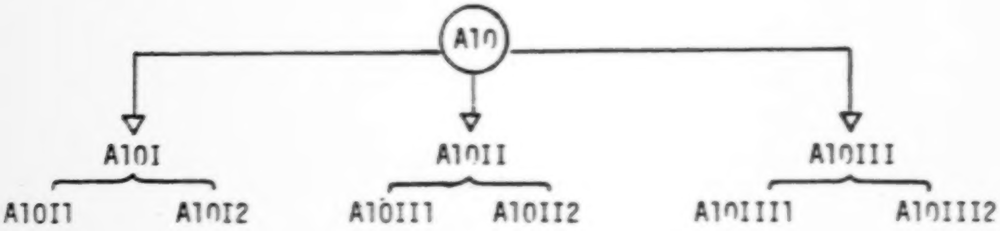
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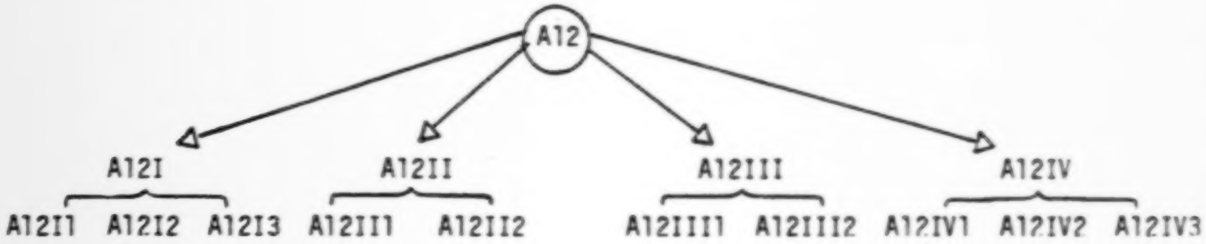
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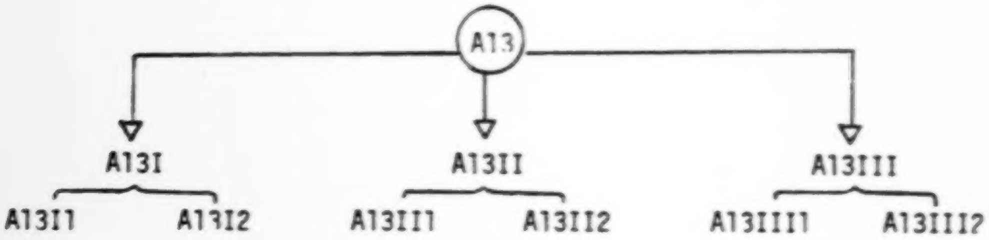
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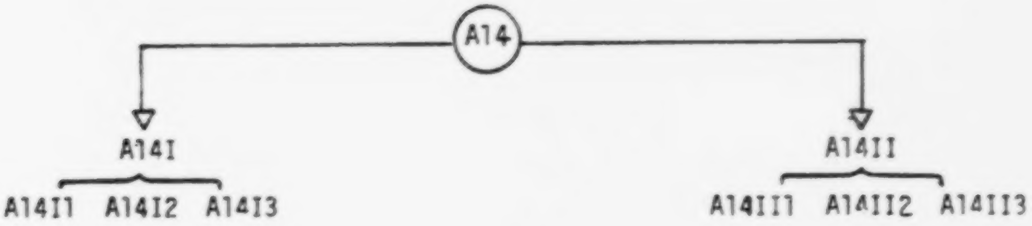
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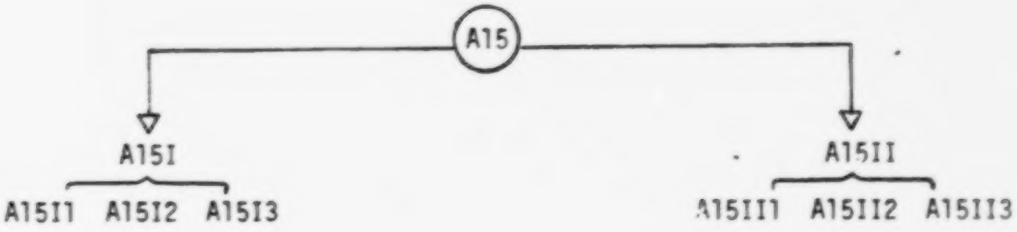
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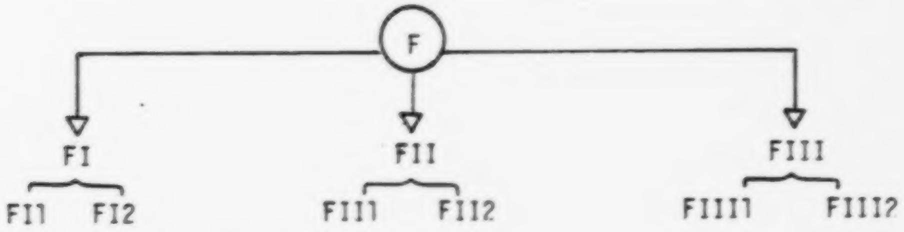
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APPENDIX E

OTHER GROUPS TO TEST

Definitions of Other Groups to Test

Other 1A: Applicant whose AGI is greater than sum of portions, and whose cash plus checking and investment value is less than 10 times (AGI - sum of portions), and itemized deductions are reported.

Other 1B: Applicant whose AGI is greater than sum of portions, and whose cash plus checking and investment value is less than 10 times (AGI - sum of portions), and no itemized deductions are reported.

Other 2A: Applicant is married, and met PFC A13, and tuition is reported, number Post High is greater than or equal to household size minus 2.

Other 2B: Applicant is married, and met PFC A13, and tuition is reported, number Post High is less than household size minus 2.

Other 2C: Applicant is not married, and met PFC A13, and tuition is reported, number Post High is greater than or equal to household size minus 1.

Other 2D: Applicant is not married, and met PFC A13, and tuition is reported, number Post High is less than household size minus 1.

Other 3A: Taxes are estimated, and EI is less than 1200.

Other 3B: Taxes are estimated, and EI is greater than or equal to 1200 and less than 1600.

Other 3C: Taxes are not estimated, and EI is less than 1200.

Other 3D: Taxes are not estimated, and EI is greater than or equal to 1200 and less than 1600.

Other 4A: Independents whose EI is greater than 0, whose taxes are greater than $500, and exemptions are greater than 1.

Other 4B: Independents whose EI is greater than 0, whose taxes are less than $500, and exemptions are greater than 1.

APPENDIX F

COMPARISON TABLES FROM AMS
1980 ERROR PRONE MODEL REPORT

TABLE 3.3: SUMMARY OF VALIDATION APPLICANT POST-SELECTION CORRECTIONS BEHAVIOR AND RESULTING SEI CHANGE BY PEC AND RANDOM APPLICANTS[1]

CRITERION GROUP		NUMBER SELECTED	% OF APPLICANTS CORRECTING POST-SECTION	AVERAGE SEI CHANGE[2]	COMPOSITE CHANGE INDEX[3]	% OF APPLICANTS CORRECTING W/NC SEI CHANGE
PEC Applicant		116,348	36	125	4,864	33.8
PEC GROUP A		137,615	38	138	5,244	35.3
	A-1	2,596	34	90	3,060	44.6
	A-2	68,800	38	165	3,420	38.0
	A-3	36,580	37	175	6,475	45.1
	A-4	18,130	29	53	1,537	77.9
	A-5	9,576	39	162	6,318	45.5
	A-6	44,948	42	233	9,786	23.5
	A-7	7,930	35	21	735	24.9
	A-8	8,985	34	103	3,502	26.5
	A-9	3,674	34	74	2,516	24.6
	A-10	21,632	49	132	6,468	12.7
	A-11	12,276	51	137	6,987	11.2
	A-12	2,720	30	138	4,140	54.6
	A-13	48	42	101	4,242	40.0
	A-14	7,120	49	113	5,537	15.9
	A-15	1,426	52	103	5,356	15.9
	A-16	438	29	- 36	-1,044	10.9
	A-17	7,006	30	125	3,750	31.1
	A-18	775	29	62	1,798	25.4
	A-19	3,746	27	131	3,537	35.4
	A-20	5,863	43	77	3,311	40.3
	A-21	63,342	40	117	4,680	31.8
Group	B	21,140	29	98	2,842	35.0
	B-1	686	33	- 22	- 726	7.1
	B-2	20,472	29	102	2,958	36.1
	B-3	44	36	233	8,388	11.5
	B-4	138	22	57	1,054	33.3
	B-5	410	39	93	3,627	20.3
	B-6	4,040	38	102	3,876	20.9
Group	C	13,274	29	111	3,219	34.5
	C-1	1,630	34	73	2,482	22.9
	C-2	11,674	28	117	3,276	36.5
	C-3	416	36	96	3,456	29.3
	C-4	3,542	35	116	4,060	24.4
Group	D	81,266	42	106	4,452	29.6
	D-1	15,406	51	75	3,825	23.4
	D-2	76,862	42	108	4,536	29.7
	D-3	11,002	56	76	4,256	17.0
Random		46,014	29	37	1,073	39.4

[1] Corrections pertain to all fields, not only critical fields.

[2] The average SEI change is derived by summing the SEI change for applicants raising and lowering their SEIs and dividing by the total number of applicants correcting, including those whose SEI did not change.

[3] The Composite Change Index is an overall score of effectiveness derived by multiplying the percent of applicants correcting by the amount of their SEI change.

TABLE 3.9: POST-SECTION CORRECTION RATE TO CRITICAL FIELDS, AVERAGE SEI CHANGE AND COMPOSITE SEI CHANGE BY VALIDATION APPLICANT SUBGROUP

Applicant Subgroup	Number Selected	% of Applicants Correcting Post-Selection 1/	Average Effective SEI Change	Composite SEI Change Index 2/	% of Applicants Raising SEI 4/	Average Amount Raised	% of Applicants Lowering SEI 4/	Average Amount Lowered	Ratio: # Raised to # Lowered 3/	Average Diff. Between Amount Raised and Lowered	% of Applicants Correcting with No SEI Change
PEC Applicants	166,348	32	144	4608	55	349	19	-254	3:1	95	26
PEC Group A	137,618	32	155	4960	54	349	18	-340	4:1	9	28
A-1	2,596	29	105	3045	43	409	22	-316	2:1	93	35
A-2	68,800	33	185	6105	53	444	17	-291	3:1	153	30
A-3	36,500	33	199	6567	48	498	14	-306	3.5:1	192	38
A-4	18,130	20	69	1380	20	555	9	-439	2:1	116	71
A-5	9,576	34	185	6290	47	486	15	-288	3:1	198	38
A-6	44,948	39	255	9945	67	449	16	-296	4:1	153	17
A-7	7,930	31	23	713	51	279	34	-345	1.5:1	- 66	15
A-8	8,908	30	114	3420	50	334	24	-332	2.5:1	2	18
A-9	3,674	31	81	2511	56	253	27	-219	2:1	34	17
A-10	21,832	35	137	4795	71	251	21	-196	3.5:1	55	8
A-11	12,276	37	144	5328	73	240	19	-166	4.1	74	8
A-12	7,720	24	158	3792	45	436	8	-440	5.5:1	- 4	47
A-13	40	33	126	4158	50	376	25	-249	2:1	127	25
A-14	7,120	41	117	4797	61	268	24	-190	3:1	78	15
A-15	1,426	50	105	5250	62	259	25	-222	3:1	37	13
A-16	438	27	- 39	-1053	59	165	37	-367	1.5:1	-202	4
A-17	7,006	25	143	3575	57	333	23	-208	2.5:1	125	10
A-18	778	25	70	1750	63	230	22	-332	3:1	-102	15
A-19	3,746	22	151	3322	56	331	19	-166	3:1	165	25
A-20	5,062	39	85	3315	51	225	14	-213	3.5:1	12	35
A-21	63,342	36	128	4600	54	180	21	-294	2.5:1	54	25
PEC Group B	21,140	24	113	2712	52	221	36	-363	1.5:1	-142	12
B-1	606	31	- 23	- 713	58	178	39	-322	1.5:1	-144	3
B-2	20,472	24	119	2856	52	337	24	-219	2:1	98	24
B-3	44	36	233	8388	88	266	0	0	88:0	266	0
B-4	134	19	66	1254	46	308	11	-367	1.5:1	71	23
B-5	410	34	107	3638	71	197	20	-162	3.5:1	35	9
B-6	4,080	35	110	3850	58	108	27	-259	2:1	49	15
PEC Group C	13,274	23	128	2944	55	307	22	-191	2.5:1	116	23
C-1	1,638	30	79	2370	66	196	26	-254	2.5:1	- 58	14
C-2	11,674	22	180	4140	53	133	22	-100	2.5:1		25
C-3	416	31	110	3300	63	198	19	-72	3.5:1	126	18
C-4	1,102	11	124	3044	61	289	23	-225	2.5:1	64	16
PEC Group D	81,266	38	116	4408	56	301	21	-254	2.5:1	47	23
D-1	15,406	48	79	3792	61	173	20	-179	3:1	44	19
D-2	76,062	38	117	4446	56	305	21	-256	2.5:1	49	23
D-3	11,002	54	79	4266	64	167	22	-125	3:1	42	14
Random	46,014	23	43	989	45	236	26	-245	1.5:1	- 9	29

1/PEC subgroup percentages are based on unduplicated applicant totals within, but not between, groups.

2/The Composite SEI Change Index is derived by multiplying the percentage of applicants making post selection corrections to critical fields by the average effective SEI change.

3/Ratios are rounded to nearest half of one percent.

4/The last three percent columns (% of Applicants Raising SEI, % of Applicants Lowering SEI + % of Applicants Correcting with No SEI Change) add up to 100% and all components of the first percent column (% of Applicants Correcting Post Selection)

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TABLE 3.10: PERCENTAGES OF VALIDATION APPLICANTS WITH POST-SELECTION CORRECTIONS TO SUSPECT FIELDS BY PEC GROUP[1]

PEC SUB-GROUPS	% OF VALIDATION APPLICANTS CORRECTING FIELD													
	CRITICAL FIELDS													
	ADJUSTED GROSS INCOME	NONTAXABLE INCOME [2]	TAXES PAID	MODEL	HOUSEHOLD SIZE	POST HIGH EDUCATION	NET ASSETS	MARITAL STATUS	VETERAN'S BENEFITS	UNREIMBURSED TUITION	APPLICANT RESOURCES	UNUSUAL EXPENSES	TAX FILING STATUS	PORTION EARNED
A-1	18	11	12	2	7	3	3	2	2	0	1	4	6	12
A-2	21	9	15	1	6	4	3	1	1	1	1	9	6	33
A-3	21	7	13	1	5	4	3	1	1	1	1	37	5	12
A-4	8	16	3	2	5	2	2	3	2	0	1	4	3	7
A-5	20	9	13	0	5	5	3	1	1	6	1	13	5	11
A-6	24	8	24	0	6	5	3	1	1	1	1	10	6	13
A-7	13	32	12	0	6	5	4	1	1	1	1	2	6	8
A-8	15	14	12	1	6	4	3	1	1	1	1	3	4	9
A-9	14	12	12	0	6	4	3	1	1	0	4	2	3	8
A-10	17	51	13	1	6	4	3	1	3	0	1	3	4	9
A-11	18	54	14	1	6	4	3	1	3	0	1	2	4	10
A-12	10	13	6	1	4	2	1	2	32	1	0	3	3	9
A-13	13	17	8	0	0	0	0	0	17	0	0	4	0	3
A-14	15	43	11	1	6	4	3	1	14	0	1	4	3	8
A-15	18	43	13	1	6	3	3	2	14	0	1	5	4	9
A-16	31	7	13	0	5	3	4	0	0	0	1	1	2	5
A-17	11	10	9	0	5	4	3	1	1	1	1	3	3	7
A-18	12	11	10	1	4	2	2	1	2	0	2	1	2	6
A-19	9	11	8	0	5	3	2	1	1	1	0	3	2	6
A-20	19	13	15	0	9	17	3	1	1	2	0	6	5	12
A-21	23	11	19	1	6	4	3	1	1	1	1	6	9	15
B-1	18	6	19	0	4	4	4	0	1	1	1	1	6	7
B-2	12	11	9	1	5	3	3	1	1	1	1	2	3	7
B-3	23	5	14	0	0	9	0	0	0	0	5	0	5	5
B-4	9	6	7	1	4	0	3	3	3	0	0	0	7	6
B-5	17	4	18	0	6	13	5	0	0	1	0	2	3	10
B-6	24	8	19	0	5	4	4	1	0	1	1	3	10	13
C-1	17	9	15	0	5	3	3	0	1	0	1	1	5	9
C-2	10	12	8	1	5	3	2	1	1	1	0	2	3	6
C-3	12	10	13	0	8	10	2	1	0	1	1	1	4	7
C-4	19	9	17	1	5	3	4	1	0	0	1	2	7	11
D-1	36	8	31	0	9	15	4	1	1	1	1	4	11	18
D-2	26	10	22	1	6	5	3	1	1	1	1	5	10	16
D-3	44	6	39	0	10	16	4	1	0	1	1	3	14	21

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[1] Shaded areas denote critical fields considered "suspect" for each PEC group. Bold face numerals signify areas of greatest change.

[2] Social security benefits are included as part of Nontaxable Income.

TABLE 6.1: GROUP SUMMARY CHART

		Working Sample					Replication Sample					Non-Validation Sample			
Group	%	I	II	III	IV	%	I	II	III	IV	%	I	II	III	IV
1	1.5	53.7	8.9	2.8	35.0	1.5	53.8	8.0	4.2	34.0	1.4	67.5	2.0	0.0	30.5
2	1.2	37.3	19.3	3.6	39.8	1.3	44.4	18.9	2.2	34.4	1.1	75.5	2.5	0.6	21.4
3	2.4	51.5	21.2	5.0	22.4	2.5	49.3	21.9	2.9	25.9	2.2	76.6	1.6	0.6	21.1
4	2.1	35.4	24.3	21.5	18.8	1.9	38.5	21.1	16.3	24.1	2.2	67.6	6.0	2.0	24.4
5	1.3	36.0	19.4	17.1	27.4	1.2	40.7	24.0	12.6	22.8	1.1	69.7	0.6	1.9	27.7
6	1.5	46.2	12.0	12.5	29.3	1.9	42.9	16.8	12.7	27.6	1.1	74.2	1.3	1.3	23.3
7	0.7	39.4	35.6	9.6	15.4	0.8	40.0	33.0	6.1	20.9	0.9	71.3	2.5	0.8	25.4
8	0.8	55.8	21.2	4.4	18.6	0.8	44.6	25.9	5.4	24.1	0.6	64.4	4.4	1.1	30.0
9	1.0	49.6	13.7	5.8	30.9	1.3	43.0	15.6	10.6	30.7	1.3	75.4	5.0	1.1	18.4
10	1.5	32.2	26.8	6.8	34.1	1.2	39.0	21.5	7.6	32.0	1.4	64.9	6.9	2.1	26.1
11	3.8	38.0	3.2	1.7	57.1	4.2	35.7	4.8	3.8	55.7	4.4	36.8	0.2	0.2	62.8
12	1.5	51.6	5.6	3.8	39.0	1.6	52.0	3.6	2.7	41.6	1.5	64.5	1.4	0.5	33.6
13	2.5	49.6	8.5	4.0	38.0	2.3	48.4	4.4	4.7	42.5	2.2	58.0	0.3	1.9	39.7
14	1.1	27.3	12.7	4.0	56.0	1.1	30.6	7.5	0.7	61.2	1.2	39.4	0.0	1.2	59.4
15	4.7	55.4	7.6	4.7	32.2	4.8	51.1	8.8	4.7	35.4	4.7	70.3	0.6	0.5	28.6
16	6.2	65.3	8.2	0.6	25.9	5.7	64.1	6.9	1.0	28.0	6.2	77.1	0.9	0.1	21.9
17	4.7	60.8	5.7	0.8	32.7	4.5	60.8	5.0	1.3	33.0	4.6	72.7	0.6	0.0	26.7
18	3.6	51.4	8.4	2.0	38.2	3.9	56.2	9.9	1.5	32.5	3.5	74.8	1.0	0.4	23.8
19	3.3	42.0	12.8	17.5	27.7	3.5	47.0	10.2	13.9	28.8	3.3	76.4	0.9	3.1	19.6
20	1.7	57.9	6.2	5.0	31.0	1.7	57.0	9.3	7.6	26.2	1.9	74.5	0.7	1.1	23.6
21	1.0	40.0	8.1	22.2	29.6	0.9	40.3	12.6	23.5	23.5	0.8	66.7	0.9	1.8	30.7
22	0.9	56.9	6.5	11.4	25.2	0.8	48.1	8.5	9.4	34.0	0.7	73.9	2.2	3.3	20.7
23	20.7	59.4	8.9	5.0	26.7	20.3	58.2	7.9	5.1	28.8	21.5	72.0	1.6	0.8	20.5
24	0.8	33.0	25.9	4.5	36.6	0.7	34.6	29.8	4.8	30.8	0.7	75.2	5.0	1.0	18.8
25	1.3	53.8	14.8	2.7	28.6	1.4	54.4	11.0	2.1	22.5	1.4	75.9	0.5	1.5	22.1
26	8.3	43.9	1.9	0.0	54.2	8.8	43.1	1.8	0.0	55.1	7.6	49.4	0.2	0.0	50.4
27	2.5	28.6	6.9	8.5	56.0	2.6	33.3	8.2	5.6	52.9	2.3	50.0	0.9	0.5	48.5
28	3.2	51.8	1.9	0.0	46.3	2.9	51.0	3.6	0.0	45.4	2.9	49.6	1.2	0.0	49.2
29	1.2	36.7	4.0	0.0	59.3	1.2	33.9	7.1	0.0	59.0	1.1	22.2	2.4	0.0	75.5
30	2.6	59.5	3.1	0.0	37.4	2.5	59.7	4.4	0.0	35.9	2.5	69.2	0.4	0.0	30.3
31	0.6	46.0	1.6	0.0	52.4	0.8	50.6	2.4	0.0	47.1	0.9	63.9	0.5	0.0	35.5
32	2.3	56.6	3.5	0.0	39.9	2.3	54.8	2.6	0.0	42.6	2.1	65.1	0.5	0.0	34.4
33	3.1	65.2	3.3	0.0	31.5	2.9	56.8	4.2	0.0	29.1	2.7	71.3	1.3	0.0	27.4
34	0.5	21.1	12.3	10.5	56.1	0.6	32.7	15.0	8.8	43.4	0.5	49.0	1.0	2.0	48.0
35	0.3	43.5	7.2	10.1	39.1	0.4	34.2	6.6	6.6	52.6	0.4	45.2	1.4	0.0	53.4
36	0.4	12.7	17.7	2.5	67.1	0.3	16.4	11.5	6.6	65.6	0.3	32.4	1.5	0.0	66.2
37	2.7	45.3	9.5	5.6	39.6	2.7	47.4	8.1	7.5	37.1	2.7	61.3	1.9	0.7	36.1
Total	100.0	51.1	8.9	4.5	35.6	100.0	50.9	8.7	4.4	36.1	100.0	66.7	1.3	0.7	31.2

I = Exact reporters

II = Over-claimers

III = Under-claimers

IV = Missing

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TABLE 6.3: PERCENTAGE MISREPORTING MAJOR FIELDS

	NTI		AGI		Taxes		SEI	
Group	Too High	Too Low	Too High	Too Low	Too High	Too Low	Too High	Too Low
1	5.0	15.1	9.4	26.6	8.6	10.1	7.9	18.0
2	1.0	6.0	20.0	38.0	16.0	26.0	11.0	35.0
3	5.3	15.2	12.1	17.7	13.3	15.5	11.7	33.0
4	4.3	5.6	24.4	47.0	27.8	35.9	36.8	43.2
5	4.7	5.5	15.0	35.4	19.7	33.1	29.1	36.2
6	8.8	4.8	7.5	16.3	8.2	13.6	21.8	21.1
7	0.0	1.1	18.2	39.8	22.7	36.4	21.6	48.9
8	2.2	0.0	7.6	50.0	21.7	32.6	13.0	48.9
9	0.0	0.0	7.3	31.3	17.7	25.0	17.7	29.2
10	1.5	3.7	8.9	38.5	27.4	22.2	14.1	48.9
11	6.6	20.3	4.8	6.2	5.3	2.2	5.7	11.5
12	10.0	8.5	2.3	8.5	2.2	6.2	7.7	11.5
13	6.8	10.5	3.7	8.2	5.9	3.7	8.2	16.8
14	0.0	16.7	6.1	7.6	9.1	10.6	12.1	34.8
15	5.0	10.4	2.9	6.1	5.9	2.3	9.0	13.5
16	1.6	12.4	4.5	14.7	6.1	6.4	2.2	13.9
17	8.9	26.4	2.1	6.7	0.2	1.1	2.5	11.9
18	3.6	11.0	4.5	13.0	7.8	7.5	5.5	19.8
19	13.2	18.0	9.0	9.9	0.0	10.8	27.5	22.2
20	2.4	2.4	4.8	5.4	5.4	6.0	12.6	11.4
21	9.5	11.6	7.4	14.7	3.2	22.1	33.7	17.9
22	8.7	3.3	8.5	6.5	7.6	9.8	23.9	13.0
23	1.4	2.6	3.9	10.3	8.1	5.1	9.4	18.1
24	1.4	1.4	5.3	23.9	40.8	5.6	8.5	52.1
25	0.0	0.8	3.8	12.3	12.3	2.3	6.2	23.1
26	4.6	12.0	3.0	8.9	3.8	2.0	0.0	4.4
27	5.0	5.0	6.8	10.4	5.4	9.0	22.1	16.7
28	4.7	7.6	1.5	18.7	5.8	3.2	0.0	4.4
29	0.0	2.0	6.9	20.8	17.8	6.9	0.0	11.9
30	3.1	6.2	2.2	13.0	4.0	4.0	0.0	5.6
31	1.7	6.8	8.5	6.8	5.1	0.0	0.0	3.1
32	5.1	13.9	2.2	8.8	1.8	2.2	0.0	6.2
33	3.1	11.0	3.6	8.4	2.6	2.1	0.0	5.3
34	4.0	10.0	8.0	24.0	8.0	18.0	26.0	30.0
35	11.9	7.1	7.1	2.4	0.0	0.0	16.7	11.9
36	3.8	3.8	7.7	26.9	30.8	11.5	11.5	53.8
37	4.0	5.2	2.2	9.0	7.1	5.2	9.3	16.4

APPENDIX G

COMMENT ON THE 1979/80 AMS THAID-GENERATED EPM CRITERIA

COMMENT ON THE 1979-80 THAID GENERATED EPM CRITERIA

In its report on the EPM, AMS warned:

> "One of the major limitations of this approach to error-prone modeling is that one can never be certain of having produced the best possible solution. A different investigator, using different samples, different variables, or forcing a different first split could well come up with a totally different model. What could have been an effective split at the second iteration may never appear in light of a different split at the first".

We agree with this statement. Our study demonstrated that the AMS model identified misreporters in the 1980-81 grant cycle about as well as it did in the 1979-80 cycle. EPM groups captured approximately the same percentages of misreporters in 80/81 as in 79/80. However, several major changes have occurred which make the EPM groupings identified by the 1979-80 run of THAID obsolete. A THAID analysis of 1980-81 data would likely identify very different error-prone groups, groups better able to detect misreporting. We are not suggesting that ED abandon the error-prone model approach. We are suggesting that changes in the BEOGS populations, the formula, the compute edits or validation procedures have probably diminished the utility of the particular recommendations of the first two EPM studies. The potential utility of the EPM method of estalishing criteria by which to select applicants for validation remains. In developing edits for the 83/84 processing year, ED should consider using THAID to generate a new error-prone model.

The Problem of the Outdated Sample

AMS noted that the use of different samples leads to the identification of different groups as error-prone. The data from the AMS study will be three years old before ED actually begins selecting applicants for validation on the basis of it. ED needs to redefine the EPM groups to take into account demographic, economic and behavioral changes.

Distortions in the 1979-80 Sample

As AMS admitted, the mid-year change in EI formula in 1979 may have distorted the corrections behavior - or even the willingness to re-enter the system - of some independent applicants. Were the THAID program run again without such students, it might well identify different groups as error-prone.

Changes in Validation Procedures

Validation procedures changed from 1979-80 to 1980-81. For example, low income and non-taxable income responses are treated differently in the two years. These differences may have affected applicants' corrections behavior. Hence, the THAID method would choose different splits and define different groups as error-prone, depending on the year of data used.

Changes in Compute Edits

As the original EPM study was being conducted, ED revised all of the 1979-80 application processing system edits and validation selection criteria for the 1980-81 processing system. ED even eliminated some of the validation criteria operating during 1979-80; therefore, corrections behavior and EPM models would differ for the two years.

Changes in the Pell Grants Formula

Between 1979-80 and 1980-81 the Pell Grants formula changed; for example, family size offsets changed, as did treatment of student income. These changes mean that, were the THAID method to be used on 1980-81 data, the applicants identified as overclaimers, underclaimers and exact claimers would differ from those identified by AMS. The groups identified as error-prone would also be likely to differ.

For all these reasons, the EPM groups should be defined again. This systematic, statistical approach to determine validation criteria is potentially useful. Because of changes in the Pell Grant environment, we strongly urge that ED redefine error-prone groups through use of the THAID sequential search program.